

neodisher

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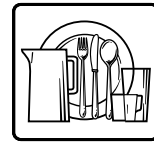
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neodisher[®] 30



Universal detergent for automated dishwashing

Powder

Fields of application:

- Automated cleaning of tableware, cutlery, working utensils and glasses in all food processing companies such as professional kitchens, butcher's shops and bakeries
- Especially suitable for fresh water dishwashers and single-tank dishwashers in the gastronomy sector, in hotels, homes, hospital kitchens and cafes

Performance spectrum:

- Effectively removes coffee and tea residues as well as other food residues
- Suitable for items made of china/porcelain, stainless steel, aluminium, nickel silver, glass and alkali-compatible synthetic materials
- Items made of anodised aluminium must be tested for suitability first
- Usable with all degrees of water hardness

Special properties:

- Offers increased hygiene safety due to an excellent cleaning performance
- Especially effective against protein, coffee and tea residues
- High level of material protection

Application and dosage:

Depending on water hardness and degree of soiling 2 – 4 g/l neodisher 30 is dosed.

Total hardness in °dH	Total hardness in mmol/l	Dosage in g/l
< 8.4	< 1.5	2
8.4 - 14	1.5 – 2.5	2 - 3
> 14	> 2.5	3 - 4

With fresh water dishwashers neodisher 30 is dosed either directly into the washing tank of the machine or via the powder dosing device on the door.

With single-tank dishwashers without water exchange neodisher 30 is added to the hot tank water at the start of the program. After every 5 washing batches, a subsequent dosing is required depending on the amount of rinsing water (for a rinsing water volume of 3 l and a dosage of 3 g/l, this corresponds to 45 g or approx. 50 ml in the enclosed measuring cup).

The required temperature in the main washing zone depends on the local conditions and the respective laws, regulations and guidelines such as e.g. DIN 10512 and DIN SPEC 10534.

neodisher 30 can be used with all degrees of water hardness.

neodisher 30 achieves optimum cleaning results in combination with fully or partially deionised water as well as with soft water with a total hardness below 3 °d. With higher degrees of water hardness a suitable water treatment should be carried out or the dosing amount of neodisher 30 should be increased and care must be taken to ensure correct re-dosing.



Notes on application:

- For professional use only!
- For an economical and controlled dosage the use of manual dosing ancillaries such as dosing caps is recommended. Please contact us.
- In the case of water hardness being > 3° d we recommend installing a water softening system to avoid the formation of limescale and to reduce the detergent consumption.
- The neodisher 30 solution has to be rinsed off completely with water.
- To remove limescale within the dishwasher use the neodisher special plus descaler.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.
- The instructions given by the manufacturer of the dishwasher must be observed.

Technical data:

pH range	11.5 – 11.7 (2 - 4 g/l, determined in deionised water, 20 °C)
Bulk density	approx. 1,050 g/l
Titration factor	0.33 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC)
No 648/2004 on detergents
< 5 % bleaching agent based on chlorine
> 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container tightly closed. The product tends to get lumpy when exposed to dampness which can cause a loss of effectiveness. Usable for 2 years when stored as recommended. Expiry date: refer to the stamp mark on the label behind the hourglass symbol ⏳.

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

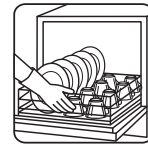
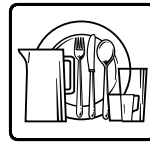
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® 40



Mildly alkaline detergent for automated dishwashing

Powder

Fields of application:

- Automated cleaning of crockery, glasses, cutlery and working utensils in all food processing companies such as professional kitchens, butcher's shops and bakeries
- Especially suitable for commercial fresh water and single-tank dishwashers in the gastronomy sector, in hotels, homes, hospital kitchens and cafes

Performance spectrum:

- Removes coffee and tea residues as well as other food residues that are not too dried on or burnt.
- Suitable for items made of porcelain/china, stainless steel, nickel silver, glass and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- Ensures increased hygiene safety due to an excellent cleaning performance
- Excellent bleaching action
- Usable with all degrees of water hardness

Application and dosage:

neodisher 40 can be used in commercial fresh water and single-tank dishwashers. The dosing amount is 2 - 4 g/l, depending on degree of soiling and water hardness.

Total hardness in °dH	Total hardness in mmol/l	Dosage in g/l
< 8.4	< 1.5	2
8.4 - 14	1.5 – 2.5	2 - 3
> 14	> 2.5	3 - 4

With fresh water dishwashers neodisher 40 is dosed either directly into the washing tank of the machine or via the powder dosing device on door of the machine.

With single-tank dishwashers without water exchange neodisher 40 is dosed into the hot tank water at the beginning of the program. After every 5 batches a re-dosing is necessary depending on the amount of rinsing water (with a rinsing water amount of 3 litres and a dosage of 3 g/l this would be 45 g resp. approx. 50 ml in the enclosed measuring cup).

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

neodisher 40 achieves optimal cleaning results when used with fully or partly deionised water as well as with soft water with a total hardness of less than 3 °d. With higher degrees of water hardness a suitable water treatment should be carried out or the dosing amount of neodisher 40 should be increased and a correct re-dosing should be observed.



Notes on application:

- For professional use only.
- For economical and controlled dosing we recommend using dosing ancillaries, such as measuring cups. Please contact us.
- With water hardness exceeding 3° d we recommend installing a water softening plant to prevent lime deposits and to reduce detergent consumption.
- The neodisher 40 solution has to be rinsed off completely with water.
- Lime deposits within the dishwasher have to be removed using the descaler neodisher special plus.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.


Technical data:

pH-range	11.0 – 12.0 (2 - 4 g/l, determined in deionised water, 20 °C)
Bulk density	approx. 1,000 – 1,200 g/l
Titration factor	0.36 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % bleaching agent based on chlorine
15 - 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container tightly closed. The product tends to get lumpy when exposed to dampness which can cause a loss of effectiveness. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

neodisher® 62

Special cleaning agent in powder form with antifoaming action for use in baking tray and pot washing machines.



Main fields of application:

Use in washing machines for containers, pans and baking trays as well as utensils in the bakery and meat products industry. Also suitable for dishwashing in single- and multi-tank machines with transport system.

Characteristics:

neodisher 62 is a mildly alkaline detergent in powder form with very good emulsifying power. Removes food residues, especially protein and starch residues and residues of meat, sausage and pastry products. Residues of fresh and baked dough and of prepared food are rapidly swollen, emulsified and decomposed.

Foaming is largely prevented by the foam suppressant in neodisher 62.

Ordinary materials such as stainless steel, aluminium, plastics, ceramic and glass are not attacked by neodisher 62.

neodisher 62 can be used with water of any degree of hardness.

Application and dosage:

In container, pot and baking tray washing machines and equipment dishwashers: 3 - 5 g/l.

In machines without fresh water system, add neodisher 62 to the hot water when starting the wash, at the rate of 150 g neodisher 62 (1 measuring cup) to 50 l tankwater. Add another 75 g (1/2 cup) after every 5 wash loads.

Subsequently the neodisher 62-solution has to be rinsed out completely by sufficient rinsing.

To avoid overloading the cleaning solution, larger food particles must first be removed from containers and pots, possibly by a manual pre-wash with a special low-foam precleaner, e.g. neodisher TV (MB 3310) or neodisher TV flüssig (MB 3311).

Do not mix with other products.

Technical data:

Bulk density: 935 - 975 g/l

pH-range (determined in deionised water, 20 °C) 3 - 5 g/l: 11.8 - 12.2

Titration factor: 0.38 (in accordance with neodisher titration method).

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

5 - 15 % non-ionic surfactants

> 30 % phosphates

Storage information:

Keep container tightly closed. The product is sensitive to moisture.

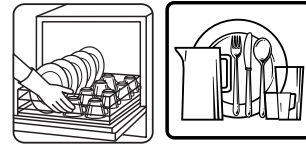
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Material Safety Data Sheet.



neodisher® 80



Alkaline intensive detergent for automated dishwashing

Powder

Fields of application:

- Automated cleaning of tableware, cutlery and working utensils in all food processing companies such as professional kitchens, butcher's shops and bakeries
- Especially suitable for commercial fresh water and single-tank dishwashers in the gastronomy sector, in hotels, homes, ward kitchens and hospitals

Performance spectrum:

- Reliably removes dried on food residues and stubborn starch, coffee and tea residues
- Suitable for items made of china/porcelain, stainless steel and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys
- Usable with all degrees of water hardness

Special properties:

- Excellent cleaning performance and starch removal
- Offers increased hygiene safety due to an excellent cleaning performance
- Especially effective against protein, coffee and tea residues.

Application and dosage:

neodisher 80 is used in commercial fresh water and single-tank dishwashers. Depending on water hardness and degree of soiling, the dosage of neodisher 80 is 2 - 4 g/l.

Total hardness in °dH	Total hardness in mmol/l	Dosage in g/l
< 8.4	< 1.5	2
8.4 - 14	1.5 – 2.5	2 - 3
> 14	> 2.5	3 - 4

With fresh water dishwashers neodisher 80 is dosed either directly into the washing tank of the machine or via the powder dosing device on the door.

With single-tank dishwashers without water exchange neodisher 80 is added to the hot tank water at the start of the program. After every 5 washing batches, a subsequent dosing is required depending on the amount of rinsing water (for a rinsing water volume of 3 l and a dosage of 3 g/l, this corresponds to 45 g or approx. 50 ml in the enclosed measuring cup).

The required temperature in the main washing zone depends on the local conditions and the respective laws, regulations and guidelines such as e.g. DIN 10510 to 10512 and DIN 10522.

neodisher 80 achieves optimum cleaning results in combination with fully or partially deionised water as well as with soft water with a total hardness below 3 °d. With higher degrees of water hardness a suitable water treatment should be carried out or the dosing amount of neodisher 80 should be increased and care must be taken to ensure correct re-dosing.



Notes on application:

- For professional use only!
- For an economical and controlled dosage the use of manual dosing ancillaries such as dosing cups is recommended. Please contact us.
- In the case of water hardness being > 3° d we recommend installing a water softening system to avoid the formation of limescale and to reduce detergent consumption.
- The neodisher 80 solution has to be rinsed off completely with water.
- To remove limescale within the dishwasher use the neodisher special plus descaler.
- The instructions given by the manufacturer of the dishwasher must be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.

Technical data:

pH-range	12.6 – 13.2 (2 - 4 g/l, determined in deionised water, 20 °C)
Bulk density	approx. 1,125 – 1,150 g/l
Titration factor	0.26 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC)


No 648/2004 on detergents:

< 5 % bleaching agents based on chlorine,

aliphatic hydrocarbons

> 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container tightly closed. The product tends to get lumpy when exposed to dampness which can cause a loss of effectiveness. Usable for 2 years when stored as recommended. Expiry date: refer to the stamp mark on the label behind the hourglass symbol .

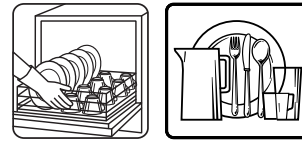
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] 82



Intensive detergent for automated dishwashing

Powder

Main fields of application:

- Cleaning of crockery, glasses, cutlery, trays and utensils in professional dishwashers in all food processing companies such as professional kitchens, butcher's shops and bakeries
- Especially suitable for professional fresh water and single-tank dishwashers

Performance spectrum:

- Effectively removes all kinds of food residues such as coffee and tea residues and stubborn starch and protein deposits
- Suitable for items made of porcelain, stainless steel, glass and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium, silver and light metal alloys

Special properties:

- Intensive cleaning performance with excellent starch dissolving action
- Free of active chlorine for a pleasant indoor climate, based on active oxygen
- Universal application

Application and dosage:

neodisher 82 can be used in professional fresh water and single-tank dishwashers. The dosing amount is 2 – 4 g/l, depending on degree of soiling and total water hardness.

	Slightly soiled items	Heavily soiled items
For soft water (0 - 6 °d H) and medium hard water (7 - 13 °d H)	2 g/l	3 g/l
For hard water (> 14 °d H)	3 g/l	4 g/l

In fresh water dishwashers the detergent is dosed either directly into the machine or via the powder dosing device on the door.

In tank dishwashers without water exchange the detergent is dosed into the hot tank water at the beginning of the programme. After every 5 wash cycles an additional dosing follows, depending on the amount of rinse water (e.g. 3 l rinse water and a dosage of 3 g/l is equivalent of 45 g (approx. 50 ml in the enclosed measuring cup)).

The required temperature in the main wash tank has to meet the demands of local conditions according to the corresponding laws, regulations and guidelines. The temperature in the main wash tank should be at least 60 °C to ensure sufficient hygiene safety.

With hard or salty water, a special water treatment should be carried out for optimum wash results.

Notes on application:

- For professional use only.
- For an economical and controlled dosing, we recommend the use of dosing aids, such as measuring cups. Please contact us.
- The neodisher 82 solution has to be rinsed off completely with water.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.



Technical data:

pH-range	12.0 – 12.3 (2 - 4 g/l, determined in deionised water, 20 °C)
Bulk density	1,150 – 1,200 g/l
Titration factor	0.24 (according to neodisher titration instructions)

Ingredients:


Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % aliphatic hydrocarbons

5 - 15 % oxygen-based bleaching agents

15 - 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container tightly closed. The product tends to get lumpy when exposed to dampness which can cause a loss of effectiveness. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

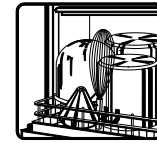
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® Alka 2



Active chlorine-free detergent for use in baking tray and pan washers

Liquid concentrate

Fields of application:

- Use in washers for containers, pots and pans and baking trays as well as utensils in the bakery and meat industry

Performance spectrum:

- Removes food residues, especially protein and starch as well as residues of meat, sausage und pastry products
- Suitable for commercial baking tray and pan washers
- Suitable for china, ordinary plastics, stainless steel, aluminium and aluminium alloys
- Articles made of anodised aluminium should be tested first

Special properties:

- Active chlorine-free
- Excellent material compatibility
- Suitable for washing dishes in single and multi-tank machines with transport systems

Application and dosage:

Adjust dosage in washers for containers, pots and pans and baking trays and in utensil washers and dishwashers according to the below-mentioned dosing recommendations. The temperature in the main wash tank should be at least 60°C to ensure sufficient hygiene safety.

Degree of soiling	Dosage
Heavily soiled articles	2 - 4 ml/l
Normal soiling	2 ml/l

Notes on application:

- For professional use only.
- If the water hardness is over 3 °dH, it is advisable to install a water softener in order to prevent scale build-up and reduce consumption of detergent.
- Rinse out dosing system and suction hose with water before changing the product.
- The neodisher® Alka 2 working solution has to be rinsed off completely with water (preferably deionised water). The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport only permitted in original packaging.




Technical data:

pH-range	11.4 – 11.7 (2 - 4 ml/l, determined in deionised water, 20 °C)
Density	1.4 g/cm ³ (20 °C)
Titration factor	0.82
Viscosity	< 10 mPa·s (concentrate, 20 °C)
Conductivity	approx. 3.8 mS/cm (3 g/l, determined in deionised water, 60 °C)

Ingredients:

Ingredients according to Regulation (EC)
No 648/2004 on detergents:
15 - 30 % phosphates

Storage information:

Always store at a temperature between
-10 °C and 30 °C.
Usable for 3 years when stored as recommended.
For expiry date refer to the stamp mark on the label
behind the hourglass symbol .

Hazard and precautionary statements:

If applied according to the instructions for use the
product is safe according to the appropriate
guidelines for food processing.
Dispose only when container is empty and closed.
For disposal of product residues, refer to the Safety
Data Sheet.

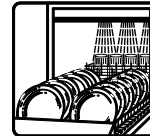
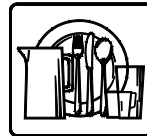


neodisher® Alka 220



DE/038/052

Intensive detergent for automated dishwashing



Liquid concentrate

Fields of application:

- Cleaning of tableware, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing areas such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Effectively removes all kinds of food residues
- Rapid swelling and removal of starch and protein residues due to high alkalinity and good dispersing performance
- Suitable for porcelain, stainless steel and all alkali compatible synthetic materials
- Not suitable for aluminium, anodised aluminium and light metal alloys
- neodisher Alka 220 is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Excellent cleaning performance; also in the case of stubborn soiling
- Ensures starch-free dishes at low dosing amounts and therefore cost effectiveness
- Odour-neutral, active chlorine-free formula without phosphate

Application and dosage:

neodisher Alka 220 can be used in all professional dishwashers. The dosing amount is 2-4 ml/l, depending on water hardness and degree of soiling. Observe dosing information.

Better for the environment...

- Reduced impact on aquatic ecosystems
- Limited hazardous substances
- Performance tested

...better for you.



www.ecolabel.eu

	slightly dirty tableware	very dirty tableware
For soft water (0 - 6 °dH)	2 ml/l	2 ml/l
For medium hard water (7-13 °dH)	2 ml/l	3 ml/l
For hard water (> 14 °dH)	3 ml/l	4 ml/l

By using this EU eco-labelled product you contribute to the reduction of water pollution and waste when observing the dosage information.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

The temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

neodisher Alka 220 without an additional component is preferably used in combination with soft water (up to 6 °d total hardness), demineralised water or water treated with a reverse osmosis unit.

In a component process neodisher Alka 220 can be used in combination with neodisher D 30 for optimising complexing, dirt dispersion and for removing tea and coffee residues or in combination with neodisher D 20 for removing tea and coffee residues. In this process neodisher Alka 220 and the additional component neodisher D 30 or neodisher D 20 are dosed simultaneously either via the weigomatic SE System and/or directly into the tank. The advantage of this process is that each product only has to be dosed in the amount necessary to remove residues. This process therefore enables a particularly economical and eco-friendly dosing.



neodisher[®] Alka 220

Notes on application:

- For professional use only
- The neodisher Alka 220 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- For an economical and controlled dosing we recommend using automatic dosing units. Please contact us.
- Do not mix with other products.

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the safety data sheet.

Technical data:


pH range	12.3 – 13.0 (2 - 4 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPa s (concentrate, 20 °C)
Density	1.45 g/cm ³ (20 °C)
Conductivity	9.4 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.25 according to neodisher titration instructions

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % phosphonates, polycarboxylates

Storage information:

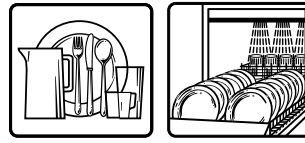
Always store at a temperature between 0 °C and 30 °C.

Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of neodisher Alka 220 may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.



neodisher® Alka 240



Intensive detergent for automated dishwashing

Liquid concentrate

Fields of application:

- Cleaning of dishes, glasses, cutlery, trays and working utensils in professional dishwashers in all food-processing companies, such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- removes all kinds of food residues; also dried-on starch-containing residues and starch and protein deposits
- suitable for cleaning items with slightly dried-on coffee and tea residues
- especially suitable for use with soft to medium hard water
- suitable for glass, porcelain, stainless steel and alkali-compatible synthetic materials
- not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- excellent starch dissolving action
- good complexing action
- The special phosphate-free and active chlorine-free formula enables excellent dispersion of food residues and removal of tannin residues.

Application and dosage:

neodisher Alka 240 is used in professional dishwashers. neodisher Alka 240 is dosed via automatic dosing devices. The dosing amount is 1 – 4 ml/l depending on degree of soiling and water quality.

slightly soiled items or total hardness up to 8.4°d	1 - 2 ml/l
heavily soiled items or total hardness up to 14°d	2 - 3 ml/l
heavily soiled items or total hardness > 14°d	3 - 4 ml/l

The required temperature in the main washing tank has to meet the demands of local conditions according to the corresponding laws, regulations and guidelines, such as e.g. DIN 10510 to 10512 and DIN 10522.

The temperature in the main washing tank should be at least 60°C to ensure sufficient hygiene safety.

When working with hard or salty water a special water treatment is recommended to achieve optimal results.

Notes on application:

- For professional use only.
- The neodisher Alka 240 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- For economical and controlled dosing we recommend using automatic dosing devices or systems. Please contact us.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products
- Storage and transport is only permitted in original packaging.



neodisher® Alka 240

Technical data:

pH-range	11.8 – 12.3 (2 - 4 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPas (concentrate, 20 °C)
Density	approx. 1.3 g/cm ³ (20 °C)
Conductivity	6.2 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.43 according to neodisher titration instructions

Hazard and precautionary statements:


If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % amphoteric surfactants, phosphonates, polycarboxylates

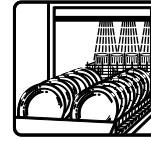
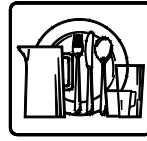
Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.



neodisher® Alka 280



Intensive detergent for automated dishwashing

DE/038/055

Liquid concentrate

Fields of application:

- Cleaning of tableware, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing areas such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Effectively removes all kinds of food residues
- Rapid swelling and removal of starch and protein residues due to high alkalinity and good dispersing performance
- Suitable for porcelain, stainless steel and all alkali compatible synthetic materials
- Not suitable for aluminium, anodised aluminium and light metal alloys
- neodisher Alka 280 is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Excellent cleaning performance; also in the case of stubborn soiling
- Ensures starch-free dishes at low dosing amounts and therefore cost effectiveness
- Odour-neutral, active chlorine-free formula without phosphate

Better for the environment...

- Reduced impact on aquatic ecosystems
- Limited hazardous substances
- Performance tested

...better for you.

EU Ecolabel
www.ecolabel.eu

Application and dosage:

neodisher Alka 280 can be used in professional dishwashers. The dosing amount is 1-5 ml/l, depending on water hardness and degree of soiling. Follow the dosing instructions.

	slightly dirty tableware	very dirty tableware
For soft water (0 - 6 °dH)	1 ml/l	2 ml/l
For medium hard water (7 - 13 °dH)	2 ml/l	4 ml/l
For hard water (> 14 °dH)	4 ml/l	5 ml/l

Using this EU eco-labelled product according to the dosage instructions will contribute to the reduction of water pollution and waste production.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

The temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

neodisher Alka 280 without an additional component is preferably used in combination with soft water (up to 3 °d total hardness), demineralised water or water treated with a reverse osmosis unit.

In a component process neodisher Alka 280 can be used in combination with neodisher D 30 for optimising complexing, dirt dispersion and for removing tea and coffee residues or in combination



neodisher[®] Alka 280

with neodisher D 20 for removing tea and coffee residues. In this process neodisher Alka 280 and the additional component neodisher D 30 or neodisher D 20 are dosed simultaneously either via the weigomatic SE System and/or directly into the tank. The advantage of this process is that each product only has to be dosed in the amount necessary to remove residues. This process therefore enables a particularly economical and eco-friendly dosing.

In the case of especially stubborn starch residues it is also possible to use neodisher Alka 280 as a supporting component in addition to another alkaline detergent via the weigomatic SE System.

Notes on application:

- For professional use only.
- The neodisher Alka 280 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- For an economical and controlled dosing we recommend using automatic dosing units. Please contact us.
- Do not mix with other products.

Technical data:


pH-range	12.5 - 13.0 (2 - 5 ml/l, determined in deionised water, 20 °C)
Viscosity	< 100 mPa s (concentrate, 20 °C)
Density	1.52 g/cm ³ (20 °C)
Conductivity	11.7 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.18 according to neodisher titration instructions

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % phosphonates

Storage information:

Always store at a temperature between 5 °C and 30 °C.

Usable for 3 years when stored as recommended. For expiry date, refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of neodisher Alka 280 may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

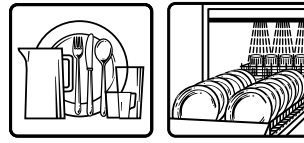
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] Alka 400 W



Universal detergent for automated dishwashing

Liquid concentrate

Fields of application:

- Cleaning of dishes, glasses, cutlery, trays and working utensils in professional dishwashers in all food-processing areas, such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Removes all kinds of food residues, such as coffee and tea residues as well as starch and protein deposits
- Especially suitable for use with soft water
- Suitable for glass, china/porcelain, stainless steel and alkali-compatible synthetic materials
- Not suitable for aluminium, anodised aluminium and light metal alloys
- Parts made of silver must be checked for suitability first

Special properties:

- Ensures increased hygiene safety due to an excellent cleaning performance. Reliably removes all kinds of food residues
- Especially effective against protein, coffee and tea residues

Application and dosage:

neodisher Alka 400 W is used in professional dishwashers. neodisher Alka 400 W is dosed via automatic dosing devices. The dosing amount is 2 - 3 ml/l depending on water quality and degree of soiling.

slightly soiled items or total hardness < 3 °d	2 ml/l
heavily soiled items or total hardness up to 8 °d	2 - 3 ml/l

The required temperature in the main washing tank has to meet the demands of local conditions according to the corresponding laws, regulations and guidelines, such as e.g. DIN 10510 to 10512 and DIN 10522.

When working with hard or salty water a special water treatment is recommended to achieve optimal results.

Notes on application:

- For professional use only.
- The neodisher Alka 400 W solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- For economical and controlled dosing we recommend using automatic dosing devices or systems. Please contact us.
- Storage and transport is only permitted in original packaging.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.



neodisher[®] Alka 400 W

Technical data:

pH-range	11.7 - 12.3 (2 - 3 ml/l, determined in deionised water, 20 °C)
Viscosity	< 10 mPas (concentrate, 20 °C)
Density	approx. 1.4 g/cm ³ (20 °C)
Conductivity	approx. 4.3 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.70 according to neodisher titration instructions

Hazard and precautionary statements:


If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
15 - 30 % phosphates
< 5 % chlorine-based bleaching agents

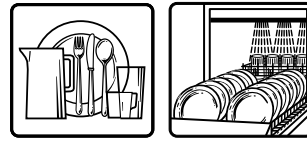
Storage information:

Always store at a temperature between -15 and 25 °C. Do not expose to direct sunlight. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.



neodisher[®] Alka 440



Universal detergent for automated dishwashing

Liquid concentrate

Fields of application:

- Cleaning of dishes, glasses, cutlery, trays and working utensils in professional dishwashers in all food-processing areas, such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Removes all kinds of food residues, especially dried-on starch and protein deposits
- Also suitable for cleaning items with coffee and tea residues
- Especially suitable for use with soft to medium hard water
- Suitable for glass, porcelain, stainless steel and alkali-compatible synthetic materials
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- Excellent starch removing action
- With odourless special component for removing coffee and tea residues without the formation of unpleasant odours
- Good complexing action

Application and dosage:

neodisher Alka 440 is used in professional dishwashers. neodisher Alka 440 is dosed via automatic dosing devices. The dosing amount is 1 - 3 ml/l depending on degree of soiling and water quality.

slightly soiled items or total hardness < 3 °d	1 - 2 ml/l
heavily soiled items or total hardness up to 14 °d	2 ml/l
heavily soiled items or total hardness > 14 °d	2 - 3 ml/l

The required temperature in the main washing tank has to meet the demands of local conditions according to the corresponding laws, regulations and guidelines, such as e.g. DIN 10510 to 10512 and DIN 10522.

The temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

When working with hard or salty water a special water treatment is recommended to achieve optimal results.

Notes on application:

- For professional use only.
- The neodisher Alka 440 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product
- For economical and controlled dosing we recommend using automatic dosing devices or systems. Please contact us.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products
- Storage and transport is only permitted in original packaging.



neodisher[®] Alka 440

Technical data:

pH-range	approx. 12.0 – 12.2 (2 - 3 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPas (concentrate, 20 °C)
Density	approx. 1.3 g/cm ³ (20 °C)
Conductivity	5.1 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.47 according to neodisher titration instructions

Hazard and precautionary statements:


If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % chlorine based bleaching agents, polycarboxylates, phosphonates

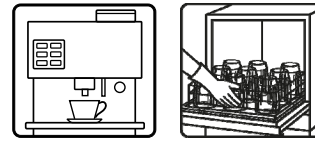
Storage information:

Always store at a temperature between -15 and 25 °C. Do not expose to direct sunlight. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.



neodisher® Alka 500



Special detergent for automated glasswashing and for cleaning milk foaming devices and milk pipes in coffee machines

Liquid concentrate

Fields of application:

- Cleaning of all kinds of drinking glasses in professional glasswashers in professional kitchens, cafés, bistros and restaurants
- Cleaning of milk frothers and milk pipes in fully automated coffee machines, coffee makers and espresso machines

Performance spectrum:

- Reliably removes residues of e.g. beer, juices and soft drinks, milk, milk shakes, ice cream, wine and spirits as well as lipstick residues
- Especially suitable for use with soft water
- Suitable for all kinds of drinking glasses as well as items made of porcelain, synthetic materials and stainless steel
- Universally applicable, suitable for all coffee machines on the market

Special properties:

- Odourless, easy-to-rinse formula
- Reliable protection of glass and decor for long durability
- neodisher Alka 500 was developed in close co-operation with leading manufacturers of glasswashers

Application and dosage:

Cleaning of drinking glasses in professional glasswashers:

neodisher Alka 500 can be used in all professional glasswashers. 1.5 – 2 ml/l neodisher Alka 500 is dosed via automated dosing systems, depending on degree of soiling.

Slightly soiled glasses	1.5 ml/l
Heavily soiled glasses	2 ml/l

The required temperature in the main washing tank has to meet the demands of the local conditions and corresponding laws, regulations and guidelines, such as e.g. DIN 10511 and DIN SPEC 10534.

The temperature in the main washing tank should be at least 55 °C to ensure sufficient hygiene safety.

For achieving optimum cleaning results hard or salty water qualities should undergo a special water treatment.

Cleaning of milk frothers and milk pipes in fully automated coffee machines, coffee makers and espresso machines:

30 ml/l according to the instructions given by the manufacturer of the machine. All milk-carrying parts should be cleaned at least daily.




neodisher® Alka 500

Notes on application:

- For professional use only.
- The neodisher Alka 500 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- For an economical and controlled dosing we recommend using automatic dosing units or systems. Furthermore, canister spouts are available for filling dishwasher-integrated detergent containers. Please contact us.
- The instructions given by the manufacturer of the dishwasher and machines are to be observed.
- Storage and transport is only permitted in original packaging.
- Do not mix with other products.

Storage information:

Always store at a temperature between -10 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

Technical data:

pH-range	11.1 – 12.7 (1.5 ml/l - 30 ml/l, determined in deionised water, 20 °C)
Viscosity	< 10 mPa s (concentrate, 20 °C)
Density	approx. 1.3 g/cm ³ (20 °C)
Conductivity	1.9 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	1.23 according to neodisher titration instructions

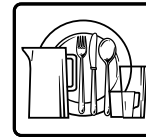
Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

15 - 30 % phosphates



neodisher® Alka 600



Mildly alkaline detergent for automated dishwashing

Liquid concentrate

Fields of application:

- Cleaning of crockery, glasses, cutlery, trays and utensils in professional dishwashers in all food processing companies such as professional kitchens, catering companies, butcher's shops and bakeries
- Also suitable for ward dishwashers in all kinds in hospitals or old people's homes or nursing homes

Performance spectrum:

- Removes stubborn coffee and tea residues as well as all kinds of food residues, especially protein deposits that are not too dried or burnt
- Suitable for glass, china/porcelain, synthetic materials, aluminium, stainless steel and hotel silverware
- Objects made of anodised aluminium are to be checked for suitability before use

Special properties:

- Especially effective against protein, coffee and tea residues
- High material protection
- Offers increased hygiene safety due to an excellent cleaning performance

Application and dosage:

neodisher Alka 600 is dosed via automated dosing devices in an amount of 2 - 5 ml/l depending on degree of soiling and water quality.

Slightly soiled items resp. soft water < 3 °d H	2 - 3 ml/l
Heavily soiled items resp. hard water up to 14 °d H	3 - 5 ml/l

The required temperature in the main wash tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

In the case of hard or salty water, a special water treatment should be carried out for an optimum cleaning result.

General notes on application:

- For professional use only!
- The neodisher Alka 600 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- For economical and controlled dosing, we recommend using automated dosing devices or dosing systems. Please contact us.
- Storage and transport is only permitted in original packaging.
- Observe the information and instructions given by the manufacturer of the dishwasher.
- Do not mix with other products.



neodisher[®] Alka 600

Technical data:

pH-range	11.1 - 11.9 (2 - 5 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPas (concentrate, 20 °C)
Density	approx. 1.4 g/cm ³ (20 °C)
Conductivity	approx. 3.9 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	1.04 according to neodisher titration instructions

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

Ingredients:


Ingredients according to Regulation (EC) No

648/2004 on detergents:

15 - 30 % phosphates

< 5 % chlorine-based bleaching agents

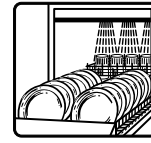
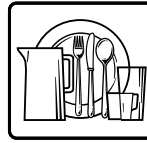
Storage information:

Always store at a temperature between -10 °C and 25 °C. Do not expose to direct sunlight. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.



neodisher® Alka plus



Intensive detergent for automated warewashing

Liquid concentrate

Fields of application:

- Cleaning of tableware, glasses, cutlery, tablets and working utensils in professional dishwashers in all food processing companies such as professional kitchens, butcher's shops and bakeries

Performance Spectrum:

- Removes all types of food residues, in particular dried starch deposits
- Suitable for glass, porcelain/china, stainless steel and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special Properties:

- For a high hygiene safety at washing temperatures from 55 °C onwards
- High starch dissolving capacity
- Free of active chlorine, for a pleasant room climate

Application and dosage:

neodisher Alka plus can be used in professional dishwashers at degrees of water hardness of up to 3 °d (0.5 mmol/l). The dosage is 3 - 4 ml/l depending on the respective degree of soiling.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

The temperature in the main washing tank should be at least 55 °C to ensure sufficient hygiene safety.

Degree of soiling	Dosage in ml/l
Lightly soiled items of tableware	3 ml/l
Heavily soiled items of tableware	4 ml/l

General instructions on use:

- For professional use only!
- The neodisher Alka plus working solution has to be rinsed off completely (preferably with deionised water).
- Rinse out dosing system including suction hose with water before changing product.
- For an economical and controlled dosing the use of automated dosing devices is recommended. Please contact us.
- The instructions given by the manufacturer of the dishwasher must be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.



neodisher[®] Alka plus

Technical data:

pH-range	12.4 - 12.6 (3 - 4 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPa s (concentrate, 20 °C)
Density	approx. 1.3 g/cm ³ (20 °C)
Conductivity	6.5 mS/cm (3 g/l, determined in deionised water, 60 °C)
Titration factor	0.39 (according to neodisher titration method)

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.


Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % amphoteric surfactants, non-ionic surfactants, cationic surfactants, phosphonates, polycarboxylates

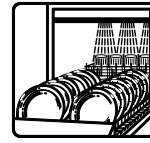
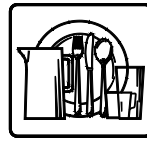
Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

The colour of neodisher Alka plus can vary due to storage conditions. This has no impact on the properties of the product which are relevant for application.



neodisher[®] BioClean



DE/038/053

Universal detergent for automated dishwashing - non-hazardous formula

Liquid concentrate

Fields of application:

- Cleaning dishes, glasses, cutlery, trays and utensils in professional dishwashers in all food processing areas such as professional kitchens, butcher's shops and bakeries as well as hospitals and old people's homes and nursing homes

Performance spectrum:

- Effectively removes all kinds of food residues
- Excellent material compatibility for cleaning items made of porcelain, aluminium, silver, stainless steel and synthetic materials
- neodisher BioClean is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Very user-friendly due to non-hazardous formula, neither caustic nor irritating
- Optimal indoor climate in comparison with standard highly alkaline detergents due to special odourless, active chlorine-free and enzyme-free formula
- Forms neutral and AOX¹-free waste water

¹ adsorbable organic halogen compounds.

Better for the environment...

- Reduced impact on aquatic ecosystems
- Limited hazardous substances
- Performance tested

...better for you.

EU Ecolabel
www.ecolabel.eu

Application and dosage:

neodisher BioClean can be used in professional dishwashers. The dosing amount is 2- 5 ml/l depending on degree of soiling and water hardness. Quantity-controlled dosing devices should be used. Dosing recommendations are to be observed.

	Lightly soiled items	Heavily soiled items
For soft water (0 - 6 °d H)	2 ml/l	3 ml/l
For medium hard water (7 - 13 °d H)	3 - 4 ml/l	4 ml/l
For hard water (>14 °d H)	4 - 5 ml/l	5 ml/l

By using this EU eco-labelled product you contribute to the reduction of water pollution and waste when observing the dosage information.

For achieving optimum cleaning results the use of softened or deionised water is recommended.

The required temperature in the main washing tank has to meet the demands of the local conditions and corresponding laws, regulations and guidelines, such as e.g. DIN 10510 to 10512 and DIN 10522.

The temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.



neodisher[®] BioClean

Notes on application:

- For professional use only
- The neodisher BioClean solution has to be rinsed off completely with water
- Rinse out dosing system including suction hose with water before changing product
- The instructions given by the manufacturer of the dishwasher are to be observed
- For an economical and controlled dosing we recommend using automatic dosing units. Please contact us.
- Do not mix with other products

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet


Technical data:

pH-range	approx. 9.4 - 9.6 (2 - 5 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPa s (concentrate, 20 °C)
Density	1.1 g/cm ³ (20 °C)
Titration factor	1.2 according to special neodisher titration instructions with Tashiro indicator

Ingredients:

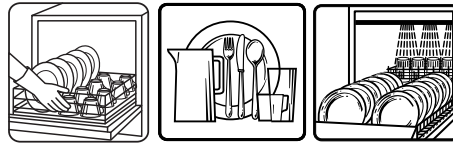
Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % phosphonates, polycarboxylates

Storage information:

Always store at a temperature between 0 °C and 30 °C.
Usable for 3 years when stored as recommended.
For expiry date refer to the stamp mark on the label behind the hourglass symbol .



neodisher® BioClean Pulver



Enzymatic cleaning agent for automated dishwashing

Powder

Fields of application:

Cleaning of crockery, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing companies such as professional kitchens, butcher's shops and bakeries as well as hospitals and old people's homes and nursing homes

Performance spectrum:

- Effectively removes all types of food residues, especially dried-on food and stubborn starch residues as well as coffee and tea residues
- Suitable for commercial dishwashers
- Suitable for washware made of porcelain, stainless steel, aluminium, silver, glass and plastic
- Anodized aluminium and light metal alloys must be tested first

Special properties:

- Very user-friendly due to non-hazardous formula, neither caustic nor irritating
- On the basis of enzymes and active oxygen
- The odourless oxy power improves the room climate in the washing area
- The effluent is pH-neutral, no AOX¹ formation

Application and dosage:

Use 2 - 5 g/l of neodisher BioClean Pulver, depending on degree of soiling.

slightly soiled	heavily soiled
2 - 3 g/l	4 - 5 g/l

The required temperature in the main washing tank must meet the demands of the local conditions as well as corresponding laws, regulations and guidelines (e. g. the German standards DIN 10510 to 10512 and DIN 10522). The temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

neodisher BioClean Pulver achieves optimum washing results combined with partly demineralised or deionised water as well as with soft water with a total hardness below 0.5 mmol/l. If harder water is used, a suitable water treatment must be carried out; the dosage of neodisher BioClean Pulver must be increased or neodisher BioClean Pulver must be used in combination with neodisher D 30.

If neodisher BioClean Pulver is manually dosed in tank machines, re-dose after approx. 5 washing cycles.

Automated dosing via the weigomatic compact-powder dosing unit is also possible. For this purpose, neodisher BioClean Pulver is available in 5 kg cartridges.

For dosing neodisher BioClean Pulver the weigomatic compact dosing unit can be connected to cold and hot water. The use of cold water is recommended. The temperature of the rinsing water should not exceed 60 °C.

Pre-dosing when filling the dishwasher is not necessary resp. has to be checked in each single case.

¹ AOX = adsorbable organic halogen compounds



neodisher[®] BioClean Pulver

Notes on application:

- For professional use only.
- For economical and controlled dosing, we recommend using dosing aids and dosing equipment, e. g. the weigomatic compact dosing unit. Please contact us.
- Due to industrial health and safety standards as well to prevent dosing problems do not remove and reuse partly emptied cartridges.
- The neodisher BioClean Pulver solution has to be rinsed off completely (preferably with deionized water).
- Do not mix with other products.
- Storage and transport only permitted in original packaging.
- The instructions given by the manufacturer of the dishwasher must be observed.


Technical data:

pH-value	10 (2 - 5 g/l, determined in deionised water, 20 °C)
Bulk density	approx. 940 g/l (20 °C)
Titration factor	0.24 according to special neodisher titration instructions with Tashiro indicator

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % oxygen-based bleaching agents, non-ionic surfactants
> 30 % phosphates
also enzymes

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container tightly closed. The product tends to get lumpy when exposed to humidity which can cause a loss of effectiveness. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

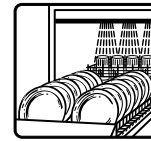
neodisher BioClean Pulver is not a hazardous product according to CLP Regulation (EC) No. 1272/2008.

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® BioKlar



Rinse aid for crockery

Liquid concentrate

Field of application:

- Rinsing of items to be washed in dishwashers, container washers, pan washers and utensil washers

Performance spectrum:

- With optimum dosage all kinds of items are evenly wetted and dry without leaving streaks or stains
- Excellent foam-inhibiting action
- Suitable for glass, porcelain, stainless steel, aluminium and plastic
- Parts made of polysulfone (PSU) and polyphenylsulfone (PPSU) may form stress cracks when coming into contact with rinse aids due to the manufacturing process. These parts must be tested for suitability first

Special properties:

- Universally applicable
- Highly concentrated, with good wetting properties for all kinds of items
- Particularly foam-inhibiting, an advantage e.g. in pan washers and utensil washers

Application and dosage:

neodisher BioKlar is used in dishwashers, container washers, pan washers and utensil washers and is particularly suitable for softened water up to 3 °d total hardness. In the case of particularly hard water the use of a water softening or demineralising plant is recommended to avoid lime scale deposits in the washer and the items to be washed.

The dosing amount is 0.2 – 0.6 ml/l, depending on the items to be washed and the conditions on site.

Depending on the items to be washed and the conditions on site	0.2 – 0.6 ml/l
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The required temperatures in the rinsing step depend on the local conditions, applicable laws, regulations and guidelines e.g. DIN 10510 to 10512, DIN 10522 and DIN SPEC 10534 as well as the instructions of the material manufacturers.

General information on application:

- For professional use only.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the machine manufacturer are to be observed.
- Do not mix with other products.
- Do not decant into other containers or bottles!

Technical data:


pH-value	6.4 (0.2 – 0.6 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPas (concentrate, 20 °C)
Density	approx. 1.0 g/cm ³ (20 °C)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
 < 5 % anionic surfactants, polycarboxylates
 5 - 15 % non-ionic surfactants
 also preservatives (2-octyl-2H-isothiazol-3-one, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1))



Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

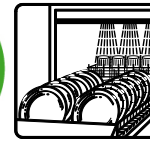
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® BioRinse



DE/038/054

Rinse aid for tableware

Liquid concentrate

Field of application:

Rinsing tableware, food containers and trolleys in ware washers and decontamination systems in all food processing areas, such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Suitable for materials such as porcelain, stoneware, glass, stainless steel, plastic, aluminium and anodised aluminium
- neodisher BioRinse is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Reliably dries even difficult to wet materials such as plastic
- Acidic; neutralises carried-over alkali residues and alkaline water
- Very user-friendly; no hazardous substance

Application and dosage:

neodisher BioRinse is used in dishwashers and decontamination systems. It is dosed into the last rinsing water via an automatic dosing device.

The dosing amount is 0.3 – 1.0 ml/l, depending on the water quality, the rinsing temperature, the type and the material of the items to be washed.

The optimum dosage of neodisher BioRinse should be adjusted when putting the washer into operation.

Better for the environment...

- Reduced impact on aquatic ecosystems
- Limited hazardous substances
- Performance tested

...better for you.

EU Ecolabel
www.ecolabel.eu

The dosing recommendations are to be observed.

Water quality	Dosage
Soft water (0 – 6 °dH)	0.3 – 0.5 ml/l
Medium hard water (7 – 13 °dH)	0.5 – 0.7 ml/l
Hard water (> 14 °dH)	0.7 – 1.0 ml/l

By using this EU eco-labelled product according to the dosage instructions will contribute to the reduction of water pollution and waste production.

The dosing system must be acid-compatible when using neodisher BioRinse.

Notes on application:

- For professional use only.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- Observe the instructions given by the manufacturer of the dishwashers resp. decontamination systems.
- Storage and transport only permitted in original packaging!

Technical data:

pH-value	approx. 4 (0.3 - 1.0 ml/l, determined in deionised water, 20 °C)
Viscosity	approx. < 50 mPas (concentrate, 20 °C)
Density	1.04 g/cm ³ (20 °C)




neodisher[®] BioRinse

Ingredients:

Ingredients according to Regulation (EC)
No 648/2004 on detergents:
< 5 % nonionic surfactants
also preservatives (potassium sorbate)

Storage information:

Always store at a temperature between 0°C and
30 °C. Usable for 3 years when stored as
recommended. For expiry date refer to the stamp
mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

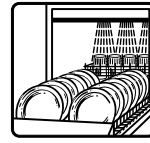
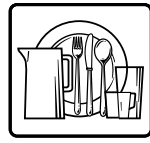
neodisher BioRinse is not a hazardous product
according to CLP Regulation (EC) No.
1272/2008.

If applied according to the instructions for use the
product is safe according to the appropriate
guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the EC
Safety Data Sheet.



neodisher® BioZym



Enzymatic
detergent for
automated dishwashing,
non-hazardous

Liquid concentrate

Fields of application:

Cleaning of crockery, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing companies, such as professional kitchens, butcher's shops, bakeries as well as hospitals and old people's/nursing homes

Performance spectrum:

- Effectively removes all types of food residues
- Enhances the cleaning performance due to a unique formula based on enzymes and surfactants
- Excellent material compatibility
- Suitable for items made of porcelain/china, aluminium, silver, stainless steel and plastic
- neodisher BioZym is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Very user-friendly due to non-hazardous formula; neither caustic nor irritating
- Optimum room climate compared to conventional highly alkaline detergents due to special odour-neutral and active chlorine-free formula
- The effluent is pH-neutral, no AOX¹ formation

Application and dosage:

neodisher BioZym can be used in professional dishwashers. neodisher BioZym is dosed via automatic dosing systems and the dosing amount is 2 - 6 ml/l depending on water quality and degree of soiling.

	Slightly soiled tableware	Heavily soiled tableware
Soft water (0 – 6 °d H)	2 ml/l	3 ml/l
Medium hard water (7 - 13 °d H)	3 - 4 ml/l	4 ml/l
Hard water (> 14 °d H)	4 - 5 ml/l	6 ml/l

The required temperature in the main wash tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines (e. g. the German standards DIN 10510 to 10512 and DIN 10522).

The temperature in the main wash tank should be at least 60 °C to ensure sufficient hygiene safety.

To achieve optimum cleaning results we recommend the use of softend or demineralised water.

¹ adsorbable organic halogen compounds



neodisher® BioZym

Notes on application:

- For professional use only.
- The neodisher BioZym solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- For economical and controlled dosing, we recommend using automated dosing devices. Please contact us.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.

Technical data:

pH-range	10.1 - 10.3 (2 - 6 ml/l, determined in deionised water, 20 °C)
Viscosity	< 10 mPa s (concentrate, 20 °C)
Density	approx. 1.1 g/cm ³ (20 °C)
Titration factor	2.0 in accordance with the special neodisher titration instructions with Tashiro indicator

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % polycarboxylates, amphoteric surfactants, non-ionic surfactants, phosphonates, also enzymes

Storage information:

Always store at a temperature between 0 °C and 25 °C. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol ⏳.

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

Hazard and precautionary statements :

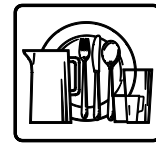
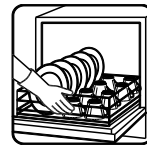
neodisher BioZym is not a hazardous product according to CLP Regulation (EC) No. 1272/2008.

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® brilliant clean



Universal detergent for automated dishwashing

Powder

Main fields of application:

- Automated cleaning of glasses, chinaware, cutlery and working utensils in all food processing companies such as professional kitchens, butcher's shops and bakeries
- Especially suitable for freshwater dishwashers, household dishwashers and small single tank dishwashers
- Also suitable for dishwashers of all kinds in hospitals or in nursing homes/old people's homes

Performance spectrum:

- Effectively removes especially stubborn coffee and tea residues as well as all kinds of food residues that are not burnt or dried on too much
- Suitable for all materials such as glass, porcelain, synthetic materials, aluminium and stainless steel as well as hotel silverware.
- Items made of anodised aluminium must be tested for suitability first.

Special properties:

- offers increased hygiene safety
- Excellent material protection
- Excellent bleaching effect

Application and dosage:

Depending on degree of soiling and water hardness 2-4 g/l neodisher brilliant clean is dosed.

	Lightly soiled items	Heavily soiled items
For soft water (0 - 6 °d H) and medium hard water (7 - 13 °dH)	2 g/l	3 g/l
For hard water (> 14 °d H)	3 g/l	4 g/l

In dishwashers with a fresh water system, the product is dosed via the integrated dosing device for powder detergents on the door. When short programmes are used, the powder is placed directly onto the door to ensure good dissolving. In tank dishwashers without a fresh water system the product is dosed into the hot tank water at the beginning of the programme. After every 5 wash loads an additional dosing follows depending on the amount of rinsing water (3 l of rinsing water and a dosage of 3 g/l is the equivalent of 45 g [approx. 50 ml/l]).

The required temperature in the main wash tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines such as DIN 10512 and DIN SPEC 10534. The temperature should be at least 55 °C to achieve sufficient hygiene safety.

neodisher brilliant clean can be used with all degrees of water hardness. Should the water hardness exceed > 3 °d H the installation of a water softening unit or the use of an integrated softening unit is recommended to avoid lime scale and to reduce detergent consumption.



neodisher[®] brilliant clean

Notes on application:

- For professional use only.
- For economical and controlled dosing we recommend using dosing aids such as graduated cups.
- The neodisher brilliant clean solution has to be rinsed off completely with water.
- Should there be a limescale build up in the dishwasher, the limescale should be removed using the neodisher special plus descaler.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Material Safety Data Sheet.

Technical data:

pH-range	11.5 - 11.7 (2 - 4 g/l, determined in deionised water, 20 °C)
Bulk density	1,000 – 1,050 g/l
Titration factor	0.33 according to neodisher titration instructions

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents: < 5 % chlorine based bleaching agents
> 30 % phosphates

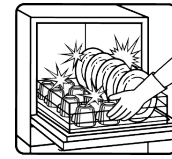
Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep container closed! The product can become lumpy in damp conditions and consequently lose its efficacy.

Changes in the colour of neodisher brilliant clean may occur; this has no impact on the properties of the product which are relevant for application.



neodisher[®] brilliant dry



Rinse aid for the automated rinsing of kitchenware

Liquid concentrate

Fields of application:

- For rinsing all kinds of kitchenware in dishwashers
- Especially suitable for fresh water, domestic and small single-tank dishwashers
- Also suitable for all kinds of dishwashers in hospitals or nursing and old people's homes

Performance spectrum:

- Evenly wets all kinds of kitchenware and improves drying
- Prevents lime deposits in rinse jets and rinsing zones
- Suitable for all materials such as glass, china/porcelain, plastic, aluminium and stainless steel as well as nickel silver

Special properties:

- Also suitable for domestic dishwashers
- Highly concentrated
- Acidic formula; carried-over alkali residue and alkaline water are neutralised

Application and dosage:

neodisher brilliant dry is used in fresh water, domestic and small single-tank dishwashers. neodisher brilliant dry is added to the final rinse water via an automatic dosing device. neodisher brilliant dry can be used for water of max. 8 °d total hardness. With industrial waters of over 3 °d total hardness, water treatment is recommended. The dosing amount depends on water quality, materials to be washed and the rinse water temperature and is 0.1 – 0.8 ml/l. The optimum dosing of neodisher brilliant dry should be adjusted prior to the first operation of the machine.

Depending on water quality, items to be washed and temperature of rinsing water	0.1 - 0.8 ml/l
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When dishwashers with a water exchange are used neodisher brilliant dry is dosed via the metering device for rinse aids located at the door.

When using neodisher compact klar make sure the dosing system is acid-compatible.

Notes on application:

- For professional use only.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.



neodisher[®] brilliant dry

Technical data:

pH-range	4.3 – 3.6 (0.1 – 0.8 ml/l, determined in deionised water, 20 °C)
Viscosity	approx. < 50 mPas (concentrate, 20 °C)
Density	1,005 g/l (20 °C)

Ingredients:

Ingredients according to Regulation (EC)

No 648/2004 on detergents:


< 5 % phosphonates

15 - 30 % non-ionic surfactants

also preservatives

(Chloromethylisothiazolone/ Methylisothiazolone)

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

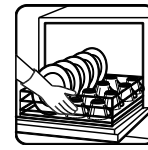
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® brilliant tabs



Cleaning tablets for automated dishwashing

Tablets

Fields of application:

- Automated cleaning of glasses, crockery, pots and pans and cutlery in fresh water dishwashers and small single-tank dishwashers in all food processing companies such as professional kitchens, butchers' shops and bakeries
- Also suitable for use in household dishwashers

Performance spectrum:

- Effortlessly removes all kinds of food residues that are not too burnt or dried-on
- Suitable for all materials, such as glass, stainless steel, porcelain, plastic, aluminium, aluminium alloys and hotel silverware
- Items made of anodized aluminium must first be tested for suitability

Special Properties:

- excellent material compatibility
- for a brilliant finish
- with fresh lemon fragrance

Application and dosage:

Dosage	1-2 tabs per cycle
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For fresh water dishwashers or household dishwashers:
1 tablet per cycle; place tablet into the detergent compartment or the empty cutlery basket.

For tank dishwashers without water exchange: 1-2 tablets for pre-dosing; place tablet/s into the water tank. Add one tablet after every 5th cycle.

Remove packaging before using tablets.

In the case of stubborn soiling it is advisable to pre-clean the items to be washed by using the special pre-cleaner such as neodisher prewash or the neodisher preclean products.

neodisher brilliant tabs are not recommended for fresh water dishwashers (water changing dishwashers) with program times below 20 min (short programs).

In addition to neodisher brilliant tabs the use of a rinse aid such as neodisher brilliant dry is recommended.

The required temperature for dishwashing has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

The temperature during cleaning should be at least 55 °C to achieve sufficient hygiene safety.

In the case of hard or salty water a special water treatment (e.g. by means of the dishwasher's integrated demineralising system) is recommended to achieve optimum results and to prevent deposits in the dishwasher or on the items to be washed.

General instructions on use:

- For professional use only!
- The neodisher brilliant tabs-solution has to be rinsed off completely with water.
- The instructions of the dishwasher manufacturers must be followed.
- Do not mix with other products.



neodisher[®] brilliant tabs

Technical data:

pH-value	approx. 10.6 (2-4 g/l, determined in deionised water, 20 °C)
Weight per tablet	20 g


Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

- < 5 % phosphonates, non-ionic surfactants, polycarboxylates
 - 5 - 15 % oxygen-based bleaching agents
 - > 30 % phosphates
- also: enzymes, perfumes

Storage information:

Always store at a temperature between 0 and 25 °C.

Usable for 1.5 years when stored as recommended.
For expiry date refer to the stamp mark on the label behind the hourglass symbol .

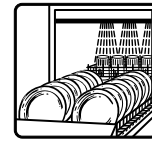
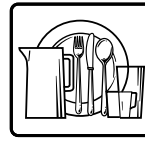
Hazard and precautionary statements:

If applied according to the instructions for use, the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] compact 100



Universal detergent for automated dishwashing

Powder

Fields of application:

- Cleaning of tableware, trays and working utensils in commercial dishwashers in all food processing companies, such as professional kitchens, canteens, bakeries and butcher's shops

Performance spectrum:

- Removes all kinds of food residues, such as coffee and tea residues as well as dried, caked and difficult-to-remove starch and protein residues
- Suitable for glass, porcelain, stainless steel and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- Ensures increased hygiene safety due to an excellent cleaning performance
- Universal use
- Especially effective against protein, coffee and tea residues

Application and dosage:

neodisher compact 100 can be used in all kinds of commercial dishwashers. The dosing amount is 1 - 3 g/l, depending on water hardness and degree of soiling.

Slightly dirty tableware total hardness < 3 °d	1 - 2 g/l
Very dirty tableware total hardness up to 8 °d	2 - 3 g/l

neodisher compact 100 is dosed via the weigomatic compact dosing unit. The dosing unit should be connected to cold water for dosing neodisher compact 100.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

In the case of hard or salty water, a special water treatment should be carried out for optimum washing results.

Notes on application:

- For professional use only.
- The neodisher compact 100 solution has to be rinsed off completely (preferably with deionised water)
- Rinse out dosing system with water before changing product
- The instructions given by the manufacturer of the dishwasher are to be observed
- Do not mix with other products
- Storage and transport is only permitted in original packaging!

Technical data:

pH-range	11.9 – 12.8 (1 - 3 g/l, determined in deionised water, 20 °C)
Bulk density	1,050 to 1,150 g/l
Conductivity	10.3 mS/cm (2 g/l, determined in deionised water, 60 °C)
Titration factor	0.16 (according to neodisher titration instructions)


Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
 < 5 % chlorine-based bleaching agents, aliphatic hydrocarbons
 > 30 % phosphates



neodisher[®] compact 100

Storage information:

Always store at a temperature between 0 °C and 25 °C. Protect from direct sunlight.
Usable for 2 years when stored as recommended.
For expiry date refer to the stamp mark on the label behind the hourglass symbol .

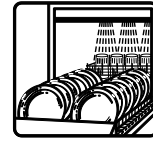
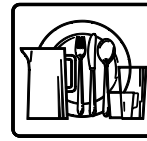
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] compact 140



Intensive detergent for automated dishwashing

Powder

Main fields of application:

- Cleaning of dishes, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing companies, such as professional kitchens, butchers' shops and bakeries

Performance spectrum:

- Intensive cleaning action: removes all kinds of food residues, especially dried, caked and difficult-to-remove food residues are soaked, removed and dispersed
- With de-foaming action
- Suitable for glass, porcelain, stainless steel and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- Reliably removes all kinds of food residues
- Ensures starch-free crockery even at low dosing amounts and is therefore highly economical
- Free of active chlorine for a pleasant indoor climate

Application and dosage:

neodisher compact 140 can be used in all professional dishwashers. The dosing amount is 1 - 3 g/l, depending on degree of soiling.

Slightly soiled items or total hardness < 3 °d	1 - 2 g/l
Heavily soiled items or total hardness up to 8 °d	2 - 3 g/l

neodisher compact 140 is dosed via the weigomatic compact dosing unit. The dosing unit should be connected to a cold water supply for neodisher compact 140.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

When using neodisher compact 140 the temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

With hard or salty water, a special water treatment should be carried out for optimum washing results.

Notes on application:

- For professional use only.
- The neodisher compact 140 solution has to be rinsed off completely with water.
- The instructions given by the manufacturer of the dishwasher must be observed.
- Rinse out dosing system with water before changing product.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.



neodisher[®] compact 140


Technical data:

pH-range	12.5 - 12.8 (1 - 3 g/l, determined in deionised water, 20 °C)
Bulk density	approx. 1,100 g/l
Conductivity	11.1 mS/cm (2 g/l, determined in deionised water, 60 °C)
Titration factor	0.14 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % non-ionic surfactants
> 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

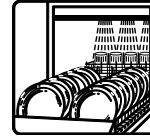
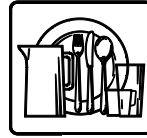
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] compact 180



DE/038/056

Intensive detergent for use in dishwashers, active chlorine-free

 **Better for the environment...**

- Reduced impact on aquatic ecosystems
- Limited hazardous substances
- Performance tested

...better for you.

www.ecolabel.eu

Powder

Fields of application:

- Cleaning of crockery, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing areas such as professional kitchens, butcher's shops and bakeries

Performance spectrum:

- Effectively removes all kinds of food residues
- Rapid soaking and removal of starch and protein residues due to high alkalinity and good dispersing performance
- Suitable for porcelain, stainless steel and all alkali-compatible synthetic materials
- Not suitable for aluminium, anodised aluminium and light metal alloys
- neodisher compact 180 is certified with the EU Ecolabel. Its cleaning performance and its environmentally friendly properties comply with European regulations in regard to ecological demands to ingredients and packaging.

Special properties:

- Excellent cleaning performance; also in the case of stubborn soiling
- Ensures starch-free dishes at low dosing amounts and therefore cost effective
- Highly concentrated powder, odour-neutral, active chlorine-free formula

Application and dosage:

neodisher compact 180 can be used in professional dishwashers. The dosing amount is 1-3 g/l, depending on water hardness and degree of soiling. Follow the dosing instructions.

	slightly dirty tableware	very dirty tableware
For soft water (0 - 6 °d H)	1 g/l	1 g/l
For medium hard water (7 - 13 °d H)	1 g/l	2 g/l
For hard water (> 14 °d H)	3 g/l	3 g/l

Using this EU Ecolabel product according to the dosage instructions will contribute to the reduction of water pollution and waste production.

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

When using neodisher compact 180 the temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

neodisher compact 180 is dosed via the weigomatic compact dosing unit. The dosing unit should be connected to cold water for dosing neodisher compact 180.

We recommend using neodisher compact 180 preferably with soft water (up to 6 °d total hardness), deionised water or water treated with the reverse osmosis process.



neodisher[®] compact 180

Notes on application:

- For professional use only
- The neodisher compact 180 solution has to be rinsed off completely with water.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.


Technical data:

Bulk density	approx. 1,100 g/l
pH-range	12.0 - 13.0 (1 - 3 g/l, determined in deionised water, 20 °C)
Conductivity	7.7 mS/cm (2 g/l, determined in deionised water, 20 °C)
Titration factor	0.1 acc. to neodisher titration instructions

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % aliphatic hydrocarbons
15- 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 30 °C.
Usable for 3 years when stored as recommended.
For expiry date refer to the stamp mark on the label behind the hourglass symbol .

The product tends to get lumpy when exposed to humidity which can cause a loss of effectiveness.

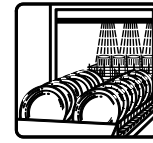
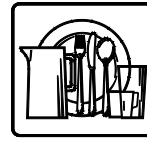
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] compact 220



Intensive detergent for automated dishwashing

Powder

Fields of application:

- Cleaning of dishes, glasses, cutlery, trays and working utensils in professional dishwashers in all food processing companies, such as professional kitchens, butchers' shops and bakeries

Performance spectrum:

- Intensive cleaning action: removes all kinds of food and tanning residues; especially dried, caked and difficult-to-remove starch residues are soaked, removed and dispersed
- With de-foaming action
- Usable with all degrees of water hardness
- Suitable for glass, porcelain, stainless steel and alkali-compatible plastic
- Not suitable for aluminium, anodised aluminium and light metal alloys

Special properties:

- Reliably prevents deposits in the dishwasher caused by water hardness
- The special phosphate-free composition enables the removal of tanning residues
- Free of active chlorine for a pleasant indoor climate

Application and dosage:

neodisher compact 220 can be used in all kinds of professional dishwashers. The dosing amount is 1 - 2 g/l, depending on water hardness and degree of soiling.

Total hardness in °d	Total hardness in mmol/l	g/l
< 8.4	< 1.5	1
8.4 - 14	1.5 - 2.5	1 - 2
> 14	> 2.5	2

The required temperature in the main washing tank has to meet the demands of the local conditions according to the corresponding laws, regulations and guidelines.

When using the detergent neodisher compact 220 the temperature in the main washing tank should be at least 60 °C to ensure sufficient hygiene safety.

neodisher compact 220 is dosed via the weigomatic compact dosing unit. The dosing unit can be connected to both cold and warm water up to 60 °C.

Notes on application:

- For professional use only
- The neodisher compact 220 solution has to be rinsed off completely (preferably with deionised water)
- Rinse out dosing system including suction hose with water before changing product
- The instructions given by the manufacturer of the dishwasher are to be observed
- Do not mix with other products
- Storage and transport is only permitted in original packaging



neodisher[®] compact 220


Technical data:

pH-range	12.0 – 12.3 (1 - 2 g/l, determined in deionised water, 20 °C)
Bulk density	1,000 to 1,100 g/l
Conductivity	12.8 mS/cm (2 g/l, determined in deionised water, 60 °C)
Titration factor	0.14 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % non-ionic surfactants
5 - 15 % polycarboxylates, phosphonates

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

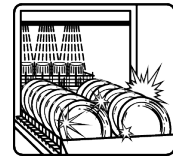
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] compact klar



Rinse Aid for Dishes

Liquid concentrate

Fields of application:

- Rinse aid for kitchenware made of china/porcelain, stainless steel and plastic for use in dishwashers
- Also suitable for rinsing baking trays, equipment and containers made of aluminium and stainless steel in utensil washers

Performance spectrum:

- With optimum dosing all kinds of kitchenware are evenly wetted and dry without leaving streaks or stains
- Improved drying
- Suitable for materials such as china/porcelain, plastic, aluminium and stainless steel

Special properties:

- Highly concentrated
- Achieves excellent wetting and streak-free and stain-free drying even with difficult-to-wet plastic items
- Neutralises carried-over alkali residue and alkaline water due to the acidic formulation

Application and dosage:

neodisher compact klar is used in dish and utensil washers in combination with the neodisher compact powder detergents; neodisher compact klar is especially suitable for soft water up to 3 °d total hardness. With higher degrees of water hardness we recommend using a water softening system or demineralisation system to prevent lime deposits within the machine and on the items to be washed. The dosing amount depends on water quality, materials to be washed and the rinse water temperature. The dosage is 0.1 – 0.5 ml/l in a temperature range of 80 - 85 °C and is done via the weigomatic compact dosing units. The optimum dosing of neodisher compact klar should be adjusted prior to the first operation of the machine.

Depending on water quality, items to be washed and temperature of rinsing water	0.1 – 0.5 ml/l
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When using neodisher compact klar make sure the dosing system is acid-compatible.

Notes on application:

- For professional use only.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.



neodisher[®] compact klar

Technical data:

pH-range	4.2 – 3.8 (0.1 – 0.5 ml/l, determined in deionised water, 20 °C)
Viscosity	approx. < 100 mPas (concentrate, 20 °C)
Density	1,000 g/l (20 °C)

Ingredients:

Ingredients according to Regulation (EC)

No 648/2004 on detergents:


< 5 % phosphonates

> 30 % non-ionic surfactants

also preservatives

(Chloromethylisothiazolone/ Methylisothiazolone)

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

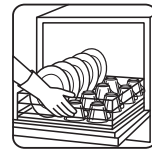
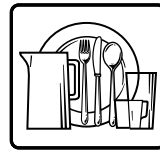
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® D 20



Additive component with active chlorine to enhance the cleaning action during automated dishwashing

Liquid concentrate

Fields of application:

- For supporting the cleaning performance during the automated cleaning of coffee and tea crockery in professional dishwashers in all food processing areas

Performance spectrum:

- For effectively supporting the cleaning action of detergents in the case of stubborn soiling
- Suitable for automated application in a component method in professional dishwashers
- Suitable for coffee and tea crockery made of hotel china, stainless steel or ordinary plastics
- Only for use in combination with alkaline detergents

Special properties:

- Especially suitable for effectively removing tannin residues
- Especially economical in combination with neodisher Alka 220
- With active chlorine

Application and dosage:

neodisher D 20 is used in professional dishwashers in combination with an alkaline neodisher detergent. The dosage is 1 – 3 ml/l neodisher D 20.

neodisher D 20 is added parallel with an alkaline neodisher tableware detergent in the main washing step of the program if there is a problem with insufficient cleaning of coffee and tea residues. The combination of neodisher D 20 and neodisher Alka 220 has proved to be ideal also in economical aspects. This involves dosing the two products in parallel in the main washing step, using only enough of each product as is required to remove the residues in question.

Notes on application:

- For professional use only.
- Rinse out dosing system and suction hose with water before changing the product.
- The neodisher D 20 working solution has to be rinsed off completely (preferably with deionised water).
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport only permitted in original packaging.



neodisher[®] D 20

Technical data:

pH-range	10.9 – 11.1 (1 - 3 g/l, determined in deionised water, 20 °C)
Density	approx. 1.2 g/cm ³ (20 °C)
Viscosity	< 10 mPa·s (concentrate, 20 °C)

When using the component method with neodisher Alka 220 and neodisher D 20 (see application and dosage), a special titration method is used to adjust the required concentration.


Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % phosphates

5 - 15 % chlorine-based bleaching agents

Storage information:

Always store at a temperature between -20 °C and 25 °C. Do not expose to sunlight. Usable for 1 year when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

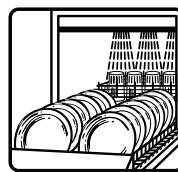
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® D 30



Additive component for enhance cleaning action - free of active-chlorine

Liquid concentrate

Fields of application:

- Automated cleaning of tableware within the component process with a neodisher detergent. For increasing the capacity of removing tanning residues.

Performance spectrum:

- Additive component in particular for complexing water hardness, dispersing dirt residues and removing coffee and tea stains
- Suitable within the component method for commercial dish washing machines
- Suitable for hotel china, stainless steel and ordinary plastics
- Not suitable for aluminum, eloxal und light alloys
- Only useable in combination with alkaline detergents

Special properties:

- Good cleaning action with tannin residues
- Additive component which is used in particular for complexing water hardness, dispersing dirt residues and removing coffee and tea stains
- Free of active chlorine

Application and dosage:

0.2 – 0.4 ml/l in combination with neodisher detergents for dishes and kitchen ware.

Application example:

neodisher D 30 is dispensed together with an alkaline neodisher detergent if there are cleaning problems with coffee and tea stains. The combination of neodisher D 30 with neodisher Alka 280 has shown to be an ideal duo, also in terms of economy.

This involves dispensing the two products together with the weigomatic SE system and/or in the tank, using only the amounts of each product required to remove the residues in question.

Notes on application:

- Only for professional use.
- Rinse out dosing system and suction hose with water before changing the product.
- The neodisher D 30 working solution has to be rinsed out completely by sufficient rinsing.
- Do not mix with other products.
- Storage and transport only permitted in original packaging.

Technical data:

pH-value	approx. 10.3 (0.2 – 0.4 ml/l, determined in deionised water, 20 °C)
Density	1.1 g/cm ³ (20 °C)
Viscosity	< 100 mPa·s (concentrate, 20 °C)
Conductivity	approx. 170 mS/cm (0.4 g/l, determined in deionised water, 60 °C)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
< 5 % polycarboxylates

Storage information:

Always store at a temperature range between 0 and 30 °C.



neodisher[®] D 30

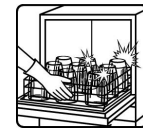
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the Material Safety Data Sheet.



neodisher[®] GL



Rinse aid for automated glass washing

Liquid concentrate

Fields of application:

- Rinsing glasses in professional dishwashers, especially in glasswashers in professional kitchens, cafés, bistros and restaurants.

Performance spectrum:

- Even wetting and stain-free and streak-free drying of glasses.
- Especially suitable for use with soft water.
- Suitable for drinking glasses and items made of porcelain, stone ware, stainless steel, aluminium and difficult-to-wet synthetic materials.

Special properties:

- For brilliant, streak-free glasses.
- Tasteless and odourless.
- Beer foam-friendly formula.

Application and dosage:

neodisher GL is used in professional dishwashers, especially in glasswashers. neodisher GL is dosed into the final rinse water via an automatic dosing device. The amount depends on water quality, shape and material of the glasses resp. items to be washed and the temperature of the final rinse water. The optimal dosage of neodisher GL should be adjusted before starting the machine.

Depending on water quality, items to be washed and final rinse temperature	0.2 – 0.5 ml/l
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The required temperature in the main washing tank has to meet the demands of local conditions according to the corresponding laws, regulations and guidelines, such as e.g. DIN 10511.

When working with hard or salty water a special water treatment is recommended to achieve an optimal rinsing result.

Notes on application:

- For professional use only.
- Rinse out dosing system including suction hose with water before changing product.
- For economical and controlled dosing, we recommend using automatic dosing devices or dosing systems. Furthermore, canister spouts are available for filling integrated rinse aid containers within the dishwasher. Please contact us.
- Do not mix with other products.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Storage and transport is only permitted in original packaging.

Technical data:

pH-range	4.6 - 3.8 (0.2 - 0.5 ml/l, determined in deionised water, 20 °C)
Viscosity	< 10 mPas (concentrate, 20 °C)
Density	1.0 g/cm ³ (20 °C)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
5 - 15 % non-ionic surfactants




neodisher[®] GL

Storage information:

Always store at a temperature between 0 °C and 30 °C.

Usable for 3 years when stored as recommended.

For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

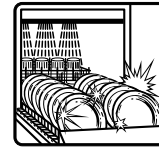
neodisher GL is not a hazardous product according to the CLP Regulation (EC) No. 1272/2008.

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed.
For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] GN



Neutral, universally applicable rinse aid

Liquid concentrate

Main fields of application:

- Automated rinsing of dishes, glasses, cutlery, trays and working utensils as well as containers and trolleys in all food processing companies such as professional kitchens, bakeries and butcher's shops

Performance spectrum:

- With appropriate dosing and rinse water temperature all items to be washed are evenly wetted and dry without leaving stains or streaks
- Suitable for all materials, such as porcelain, stoneware, glass, stainless steel, aluminium and easy-to-wet synthetic materials (plastic)

Special properties:

- Universally applicable
- For brilliant results
- Excellent material compatibility

Application and dosage:

neodisher GN is dosed into the last rinse water via an automatic dosing device. The dosing amount depends on water quality, type and material of the items to be washed and the rinsing temperature. The optimal dosing of neodisher GN should be adjusted in the initial setup of the dishwasher.

Depending on water quality, items to be washed and rinsing temperature	0.2 – 0.5 ml/l
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neodisher GN is especially suitable for soft water. With hard or salty water we recommend a special water treatment for optimum rinsing results.

For rinsing difficult-to-wet synthetic materials we recommend our special rinse aid neodisher TS or neodisher TN.

Notes on application:

- For professional use only.
- Rinse out dosing system including suction hose with water before changing product.
- Do not mix with other products.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Storage and transport is only permitted in original packaging.



Technical data:

pH-range	6.5 – 6.0 (0.2 - 0.5 ml/l, determined in deionised water, 20 °C)
Viscosity	< 10 mPas (concentrate, 20 °C)
Density	approx. 1.0 g/cm ³ (determined in deionised water, 20 °C)

Ingredients:


Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % phosphonates, polycarboxylates

15 - 30 % non-ionic surfactants

also preservatives (methylchloroisothiazolone/
methylisothiazolone)

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol . Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product, which are relevant for application.

Hazard and precautionary statements:

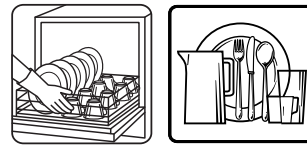
neodisher GN is not a hazardous product according to CLP Regulation (EC) No. 1272/2008.

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® GRM



Special detergent for the thorough cleaning of kitchenware

Powder

Fields of application:

- Manual and automated thorough cleaning of kitchenware in all food processing areas such as professional kitchens, butcher's shops and bakeries
- Also suitable for automated cleaning of laboratory glassware in industrial laboratories, for cleaning deep fat fryers, for interior surfaces of machines and for cleaning drains.

Performance spectrum:

- Effectively removes all kinds of food residues, especially starch and dried or difficult-to-remove food residues
- Also removes other organic residues (e.g. tar and bitumen when cleaning laboratory glassware)
- Suitable for items made of china/porcelain with underglaze decoration, stainless steel, laboratory glassware and alkali-compatible plastic
- Not suitable for aluminium, anodized aluminium and light metal alloys

Special properties:

- Intensive cleaning performance; rapid and self-acting dissolving of starch and other food residues
- All-purpose application dishwashers or in immersion baths
- Odour-free

Application and dosage:

Thorough cleaning of kitchenware in immersion baths:

Dissolve neodisher GRM in a concentration of 10 – 30 g/l in cold to warm water. Place the items to be washed into the bath for approx. 15 minutes. Do not leave to act longer than necessary. Then place the items into the dishwasher and clean to completely remove the neodisher GRM solution.

Thorough cleaning of kitchenware in dishwashers or of the dishwasher itself:

Depending on the degree of soiling 10 – 30 g/l neodisher GRM is dosed into the heated washing tank (50 – 60 °C). Then the program is started.

In the case of heavy soiling, the process may have to be repeated.

When using water exchange dishwashers dose neodisher GRM instead of the normal detergent. To ensure a good dissolving dose the detergent directly on the door and not into the dosing flap.

If neodisher GRM is used in a multi-tank dishwasher e.g. in a conveyor belt dishwasher, the detergent is dosed manually in all washing tanks. The thorough cleaning of the items should be done at the lowest transport speed.

With thorough cleaning in single-tank and multi-tank dishwashers, it must be checked when taking out the items if the fresh water rinse was sufficient or if alkaline residues remain, forming streaks which occur if too much detergent has been dosed. Should this be the case all affected items must be placed into a freshly filled dishwasher without additional dosing of detergent and be rinsed again.



neodisher[®] GRM

During thorough cleaning in a dishwasher the initial concentration of neodisher GRM will be gradually reduced due to the amount of rinsing water. This requires additional dosing of neodisher GRM.

Cleaning of laboratory glassware

To clean laboratory glassware in laboratory washers dose 3 - 5 g/l neodisher GRM at 50 °C - 90 °C.

Cleaning of deep fat fryers:

Fill the deep fat fryer with water; add neodisher GRM in a concentration of 10 g/l, neodisher GRM must be totally dissolved and heat. After a short contact time, thoroughly rinse with water.

Drain cleaning:

For drain cleaning, dissolve 30 g/l neodisher GRM in cold to warm water. Pour the solution into the drain and leave for approx. 1 hour. Then rinse the drain with a sufficient amount of water.

Thorough cleaning of kitchenware – immersion bath	10 - 30 g/l
Thorough cleaning of kitchenware – automated	10 - 30 g/l
Cleaning of laboratory glassware	3 – 5 g/l
Cleaning of deep fat fryers	10 g/l
Drain cleaning	30 g/l

Notes on application:

- For professional use only.
- For economical and controlled dosing we recommend using dosing aids, e.g. measuring beakers.
- With water hardness of > 3° d we recommend installing a water softening plant to prevent lime deposits and to reduce detergent consumption.
- The neodisher GRM solution has to be rinsed off completely with water.

- In the case of lime deposits forming in the dishwasher, these should be removed using the descaler neodisher special plus.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.

Technical data:


pH-range	12.3 – 12.9 (1 - 3 %, determined in deionised water, 20 °C)
Bulk density	approx. 1,080 – 1,130 g/l
Titration factor	0.10 (according to neodisher titration instructions)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

- < 5 % non-ionic surfactants
- 15 – 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 30 °C. Keep container tightly closed. The product may become lumpy if exposed to humidity and may lose its effectiveness. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

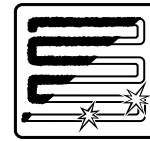
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher[®] Super



Acidic detergent

Powder

Fields of application:

- Descaling and thorough cleaning of dishwashers, cooking utensils and kettles
- Also suitable for pre-cleaning in washer disinfectors for laboratory glassware in the metalworking industry and food industry

Performance spectrum:

- Reliably removes stubborn limescale deposits and dirt enclosed therein as well as residues which consist of metal hydroxides, metal oxides and metal salts, ores and minerals and residues of galvanic baths
- Suitable for glass, ceramics, stainless steel, PVC, Makrolon, polypropylene and a range of other synthetic materials
- Not suitable for non-ferrous metals, aluminium, anodised aluminium and light metal alloys
- For descaling coffee machines we recommend using neodisher CM special

Special properties:

- Good material compatibility
- Low foam formula
- Easy to use

Application and dosage:

Descaling and thorough cleaning of dishwashers:

Add 20 – 50 g/l neodisher Super to the heated tank water (50 - 60 °C) and start the water circulating program. When filling the tank, when starting the program and during the following cleaning cycle the dosing of detergent – particularly of products containing active chlorine – must be switched off to prevent the formation of chlorine gas and to avoid increased consumption due to the neutralising effect. After 5 minutes check the cleaning result. In the case of heavy deposits, the descaling may have to be repeated or a re-dosing may have to be carried out.

Then rinse the interior of the machine thoroughly with fresh water or refill the machine with fresh water without dosing detergent and start a few program cycles for water circulation.

Place detachable parts or calcified wash ware in a max. 5 % solution (50 g/l). Do not leave to soak longer than absolutely necessary. Then rinse the cleaned parts and items thoroughly with plenty of fresh water or wash them in the dishwasher.

Descaling and thorough cleaning of cooking utensils and kettles:

Depending on the degree of soiling, add neodisher Super in accordance with the below-mentioned dosing recommendation. Apply the solution onto the surfaces or fill the solution into the containers to be descaled. Allow the solution to act for a short time and then rinse the cleaned surface thoroughly with plenty of fresh water.



neodisher[®] Super

For pre-cleaning in laboratory washers:

Add 2 – 5 g/l directly into the tank of the machine. The following cleaning step uses a suitable alkaline detergent. If this detergent contains active chlorine, an intermediate rinse must be run between the pre-cleaning and main cleaning step.

Application	Dosage
Pre-cleaning laboratory washers	2 - 5 g/l
Descaling dishwashers/ detachable parts/cooking utensils and kettles	20 – 50 g/l

Make sure all parts are acid-compatible. Drainage of acidic solutions, e.g. from machines, acid-compatible drainage pipes are required. Eternit and cast-iron pipes are unsuitable and require prior neutralisation of the draining solution..

General instructions on use:

- For professional use only!
- For an economical and controlled dosage the use of manual dosing ancillaries such as graduated beakers is recommended. Please contact us.
- The neodisher Super solution has to be rinsed off completely with water.
- Please observe the instructions given by the manufacturers of the dishwashers, utensil washers and washer disinfectors.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.


Technical data:

pH-range	2.1 – 1.3 (2 - 5 g/l, determined in deionised water, 20 °C)
bulk density	1,210 – 1,270 g/l
titration factor	0.19 (according to neodisher titration instructions)

Ingredients:

Inorganic acids

Storage information:

Always store at a temperature between 0 °C and 30 °C. Keep container tightly closed. The product tends to get lumpy when exposed to dampness which can cause a loss of effectiveness. Usable for 2 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

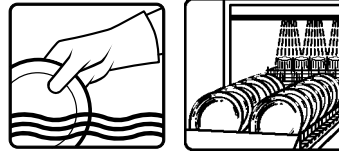
Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® TK



Special detergent for use in dishwashers and immersion baths

Powder

Fields of application:

- Cleaning of coffee and tea sets in commercial dishwashers and in immersion baths in all food processing companies such as cafes, canteens, restaurants, guest houses and hotels
- For supporting the cleaning performance during automated cleaning of coffee and tea sets

Performance spectrum:

- Removes stubborn coffee and tea stains and all kinds of food residues so long as they are not too dry or burnt on
- Dishes made of hotel china or stainless steel can be cleaned with neodisher TK
- neodisher TK is not suitable for silverware
- Anodised items must be tested first
- Using the intensive detergent neodisher 80 is recommended for removing too dry or burnt on residues

Special Properties:

- Very good bleaching effect
- Rapid effectiveness
- Universal use in dishwashers or immersion baths

Application and dosage:

For use in commercial dishwashers:

neodisher TK can be used in commercial dishwashers. Depending on water hardness and degree of soiling the dosing amount is 2 - 4 g/l.

Total hardness in °d	Total hardness in mmol/l	Dosage in g/l
< 8.4	< 1.5	2
8.4 - 14	1.5 – 2.5	3
> 14	> 2.5	4

With fresh water dishwashers neodisher TK is dosed either directly into the washing tank of the machine or via the powder dosing device on the door.

With single-tank dishwashers without water exchange neodisher TK is added to the hot tank water at the start of the program. After every 5 washing batches, a subsequent dosing is required depending on the amount of rinsing water (for a rinsing water volume of 3 l and a dosage of 3 g/l, this corresponds to 45 g or approx. 50 ml in the enclosed measuring cup).

The required temperature in the main washing zone depends on the local conditions and the respective laws, regulations and guidelines such as e.g. DIN 10510 to 10512 and DIN 10522.

For use in immersion baths

neodisher TK must be diluted in a concentration of max. 20 g/l in warm or hot water. Immerse the items to be washed for approx. 15 minutes. Do not expose the items to the solution longer than necessary. Then clean the items in the dishwasher to remove the neodisher TK solution completely.



When used for supporting the cleaning performance in dishwashers

For supporting the bleaching effect for very dirty coffee and tea sets, neodisher TK can be added to the tank water in addition to the detergent normally used. In this case the dosage should be approx. 1 g/l.

Use in commercial dishwashers	2 - 4 g/l
Use in immersion baths	max. 20 g/l
Use as bleaching additive	1 g/l

Notes on application:

- neodisher TK can be used in professional dishwashers at a water hardness up to 3.8 mmol/l total hardness.
- When using water with a water hardness > 0.53 mmol/l the use of a water softening system is recommended for avoiding the formation of lime and for reducing detergent consumption.
- For professional use only!
- For an economical and controlled dosage the use of manual dosing ancillaries such as dosing cups is recommended. Please contact us.
- The neodisher TK working solution has to be rinsed off completely (preferably with deionised water).
- The instructions given by the manufacturer of the dishwasher must be observed.
- Do not mix with other products.
- Storage and transport is only permitted in original packaging.

Technical data:


Bulk density	1,075 – 1,125 g/l
pH-range	(determined in deionised water, 20 °C) 2 - 4 g/l: 11.1 – 11.8
Titration factor	0.38 (in accordance with the neodisher titration method)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % chlorine-based bleaching agents,
15 - 30 % phosphates

Storage information:

Always store at a temperature between 0 °C and 25 °C. Keep away from sunlight. Keep container tightly closed. The product is sensitive to moisture. Usable for 2 years when stored as recommended. Expiry date: refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

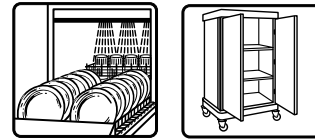
Dispose only when container is empty and closed. For disposal of product residues, refer to the Material Safety Data Sheet.



neodisher[®] TN



Neutral special rinse aid for difficult-to-wet materials



Liquid concentrate

Fields of application:

- Rinsing dishes, glasses, cutlery, trays and utensils in professional dishwashers as well as containers and trolleys in decontamination units in all food processing areas, such as professional kitchens, butcher's shops and bakeries
- Rinsing difficult-to-wet materials such as bed frames, bedside cupboards and trolleys in decontamination units in clinics and in the care sector

Performance spectrum:

- Achieves a brilliant rinsing result due to excellent wetting of all materials
- Good material compatibility, specially matched to the various materials of bedframes and bedside cupboards
- Especially suitable for use with soft water
- When neodisher TN is used as intended, the biocompatibility of the treated medical devices is not affected. (Biological evaluation of medical devices according to EN ISO 10993-1)

Special properties:

- Achieves excellent wetting and stain and streak-free drying; also of difficult-to-wet parts made of synthetic materials
- Reduced consumption
- Even and residue-free drying

Application and dosage:

neodisher TN can be used in professional dishwashers and decontamination units. neodisher TN is dosed into the final rinse water via an automatic dosing device. Dosage depends on water quality, shape and material of the items to be washed and the temperature of the rinse water. The optimum dosage of neodisher TN should be adjusted when commissioning the washer.

Depending on water quality, items to be washed and temperature of the rinse water	0.1 – 0.8 ml/l
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When working with hard or salty water a special water treatment is recommended to achieve an optimal rinsing result. In order to avoid water stains we recommend using deionised water in the final rinse step.

Notes on application:

- For professional use only.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions given by the manufacturer of the dishwasher are to be observed.
- Reprocessing should comply with all ordinances pursuant to the regulations on medical devices and should be performed with appropriate validated processes.
- Please observe the reprocessing recommendations of the medical device manufacturers according to the requirements of the DIN EN ISO 17664, the reprocessing recommendations of the manufacturer of the bedframes and the recommendations of the Working Group Bedframe and Trolley Decontamination Units [Arbeitskreis Bettgestell- und Wagendekontaminationsanlagen (AK-BWA)] in the current issue of the AK-BWA brochure "Automated Decontamination" [„Maschinelle Dekontamination“].
- Storage and transport is only permitted in original packaging.



Technical data:

pH range	6.7 – 7.0 (0.1 – 0.8 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPa s (concentrate, 20 °C)
Density	approx. 1.0 g/cm ³ (20 °C)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

< 5 % phosphonates, polycarboxylates

15 - 30 % non-ionic surfactants


also preservatives: Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3:1)

CE mark:

neodisher TN complies with European guidelines for medical devices.

If a serious incident occurs with the product, report it to the manufacturer and the relevant national authority.

Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

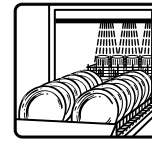
neodisher TN is not a hazardous product according to the CLP Regulation (EC) No 1272/2008.

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.



neodisher® TS



Rinse Aid for Dishes

Liquid concentrate

Field of application:

- Rinsing dishes, food containers and trolleys in washers in all food processing companies, such as professional kitchens, butcher's shops and bakeries
- Also suitable for rinsing animal cages, accessories and racks for cages, storage and transport in specially designed washers

Performance spectrum:

- All kinds of items are evenly wetted and dry without leaving streaks
- Considerably improves and accelerates drying
- Significantly prevents lime deposits in rinsing nozzles and rinsing zones
- Suitable for materials, such as porcelain, stoneware, glass, stainless steel, plastic (e. g. animal cages made of polycarbonate, polyetherimide), aluminium as well as anodized aluminium
- Parts made of polysulfone (PSU) or polyphenylsulfone (PPSU) can form stress cracks when treated with rinse aids. For cages made of these materials the special rinse aid neodisher PolyKlar is to be used

Special properties:

- Reliably dries even difficult-to-wet materials, such as e. g. plastic
- Highly concentrated
- Acidic formula, neutralises carried-over alkali residues and alkaline water

Application and dosage:

neodisher TS is used in dishwashers, decontamination units for trolleys and specially designed washers for animal cages and accessories as well as cage, storage and transport racks. neodisher TS is dosed into the final rinsing water via an automatic dosing device.

The dosing amount also depends on the water quality, material of the items to be washed and the temperature of the rinsing water and is 0.1 – 0.8 ml/l. The optimum dosing of neodisher TS should be adjusted when starting up the washer.

Depending on water quality, items to be washed and temperature of rinsing water	0.1 – 0.8 ml/l
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neodisher TS can be used with all degrees of water hardness. In the case of water exceeding 3 °d total hardness (> 0.54 mmol/l), water treatment is recommended.

When using neodisher TS the dosing system is to be checked for acid compatibility.

General notes on application:

- For professional use only.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- The instructions of the manufacturers of the dishwashers, decontamination units and specially designed washers are to be observed.
- Please also observe the reprocessing recommendations of the manufacturers of the trolleys and animal cages and the recommendations of the "Arbeitskreis Bettgestell- und Wagendekontaminationsanlagen (AK-BWA)" [Working Group Bedframe and Trolley Decontamination Units] in the current issue of the AK-BWA brochure "Maschinelle Dekontamination" [Automated Decontamination] and the recommendation of the "Arbeitskreis Käfigaufbereitung (AK KAB)" [Working Group Cage Reprocessing] in the current issue of the AK KAB brochure "Käfigaufbereitung in der Tierhaltung" [Reprocessing Animal Cages].
- Storage and transport is only permitted in original packaging.




Technical data:

pH-range	approx. 4.2 – 3.5 (0.1 – 0.8 ml/l, determined in deionised water, 20 °C)
Viscosity	< 50 mPas (concentrate, 20 °C)
Density	approx. 1.1 g/cm ³ (20 °C)

Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:
15 - 30 % nonionic surfactants,
< 5 % phosphonates,
also preservatives (methylchloroisothiazolinone)

Storage information:

Always store at a temperature between 0 °C and 30 °C.
Usable for 3 years when stored as recommended.
For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Hazard and precautionary statements:

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
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