

Miele

Miele's guide to dishwashing

Helpful hints and tips on getting the best out of your dishwasher





Helpful hints and tips on getting the best out of your dishwasher

Modifications

Technically conditional changes that result in minor dimensional and colour deviations, printing errors, other errors, innovations and modifications to the sales program are reserved. Deviations in the colour reproduction in images from the original appliance colours is subject to typography.

Miele's guide to dishwashing

At around the turn of the last century housemaids were assigned the laborious and strenuous duty of housework. Nowadays most people leave the washing up to dishwashers, rather than washing by hand. Thanks to our decades of experience, Miele dishwashers are able to cope with all everyday challenges. Whether they be stubborn stains or delicate glassware, they're not a problem for Miele dishwashers. With this little guidebook we would like to use our extensive experience to put you on the right track in the area of dishwashing. From the basic principles of dishwashing, to the best care of your valuable crockery and glassware, to the most economical use of your dishwasher, you will find numerous pieces of advice and tips in this guidebook.*

We would like to wish you enjoyment in the exploration of the Miele world of dishwashers and forever clean and sparkling crockery.

Contents



Miele – more than a century of
“IMMER BESSER” 6–13

Luminous arguments 14–23

Economical and
environmentally friendly 24–25

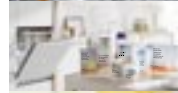
Wash programmes 26–35

Basket design 36–45

Miele CareCollection
detergents and conditioning
products 46–57

Types of crockery and their
care 58–69

ABC of dishwashing 70–85



Miele – more than a century of “IMMER BESSER”

Miele – a company with more than 100 years of tradition. The headquarters of Miele are in Gütersloh, in the heart of Westphalia. In the same year the company was founded a commitment to a philosophy was made, comprising two words that mean everything to Miele: “IMMER BESSER”.



6 The Miele Dishwasher Plant in Bielefeld

“IMMER BESSER”: In short, these two words stand for innovation, quality, longevity and environmental protection. As a commitment to these values, every Miele appliance is tested to last for 20 years.*



*Based on 7,500 cycles, consisting of different programmes and operating times.



Miele – more than a century of “IMMER BESSER”



Miele
PROFESSIONAL

Miele profile solutions for
special demands

Miele provides the ideal solution for special
demands, e.g. hotels, restaurants and
hospitals, with its commercial dishwashers,
washing machines and disinfectors.



Miele – more than a century of “IMMER BESSER”

A journey through time from 1899 to the present.



- 1899** Carl Miele and Reinhard Zinkann establish the company Miele & Co. In Herzebrock. The first product is a milk separator.
- 1900/1901** The first Miele washing machine “Meteor” comes onto the market.
- 1905** The birth of Miele marketing: the mission statement “Immer besser” is developed by the company founders.
- 1907** The headquarters are relocated from Herzebrock to Gütersloh.
- 1916** The second Miele plant is established in Bielefeld. Bicycles are the first to be produced there.
- 1929** The first electric domestic dishwasher in Europe is developed by Miele.
- 1960** Miele releases the first fully automatic dishwasher on the market. For the first time ever, a complete wash programme can be run. The G 10 already has front loading, rotating spray arms and removable baskets. Bicycle production at the Bielefeld plant is given up in favour of the more promising dishwashers.
- 1967** The first built-in dishwashers integrate perfectly into kitchens. In addition, Miele develops laboratory glassware washers and thermal disinfectors that are made to handle the high demands of hospitals and industrial plants.

- 1968** The 250,000th dishwasher rolls off the production line at the Bielefeld plant.
- 1978** At the “Domotechnica '78” Miele presents the first dishwasher in the world with sensor electronics. Eight programmes with different temperatures can be selected via the electronics. The cornerstone for this was laid in 1968 with the construction of a separate electronics department at the Gütersloh plant.
- 1981** The first fully integrated Miele dishwasher is presented. Advantage: Control panel is located inside and is invisible from the outside.
- 1986** The electronic units for Miele appliances are developed and produced in Gütersloh.
- 1987** Miele develops the unique cutlery tray. The cutlery tray hygienically washes and dries cutlery. In addition to this, it is particularly safe for cutlery and hands.



Miele – more than a century of “IMMER BESSER”

A journey through time from 1899 to the present.

- 1990** Miele now also produces 45 cm wide dishwashers. The narrow dishwasher is ideal for single people or small households with little space.
- 1994** The worktop heights are suited to the taller population. Miele XXL dishwashers take advantage of the extra room and offer more flexibility.
- 1999** Miele develops Perfect GlassCare. Due to the admixture of hard, untreated water, the water hardness is always ideal for the care of glasses.
- 2004** 75 years of Miele dishwashers! Special highlights of the new dishwashers include the salt reservoir in the door, which allows salt to be conveniently filled without having to crouch down, the variety of programmes, the flexible basket design, and the lowest consumption values for water and energy.
- 2006** The Miele CareCollection, with our own cleaning and care products for dishwashers, is introduced. These products are specially designed for Miele dishwashers.

- 2007** New highlights: AutoClose allows the dishwasher door to close softly and almost by itself. AutoOpen assists drying by automatically opening the door after a programme and the Turbo function shortens programme running times by up to 50 minutes.
- 2008** Miele dishwashers use a minimum of 8 litres of water and under 1 kWh of energy. Fingerprints are no longer given a chance on dishwashers thanks to the CleanSteel stainless steel surface.
- 2009** One reason to celebrate: Miele dishwashers celebrate their 80th birthday.
- 2010** The new G 5000 series of dishwashers is brought onto the market by Miele. New, unique features include the 3D cutlery tray, the BrilliantLight illumination concept and even lower consumption data.



Luminous arguments

Responsibility has a tradition at Miele. If you decide to purchase a Miele domestic appliance, you can be assured of having made an enduring and reliable choice. This includes the eco-friendly production, as well as the technological advancement of appliances and the longevity of products of up to 20 years. We have changed the world of dishwashers with the 3D cutlery tray, Comfort basket design and other features unique to Miele. Above all else, the perfect interplay between comfort and protection makes our dishwashers so unique.







Design and comfort

Patented 3D cutlery tray*

The new dimension in cutlery care

The new 3D cutlery tray is one-of-a-kind: It can be adjusted to change not only its width and depth, but also its height, thus adapting to every loading situation. Even bulky items such as soup ladles or egg whisks can be easily accommodated.

Comfort basket design

Revolution on wheels

New basket grips, a completely new lower basket design, along with innovative functions in the upper basket: With the new Miele dishwashers, a new era in basket design begins.



Design and comfort



BrilliantLight

Perfect illumination for easier loading

4 LEDs immerse the interior of the dishwasher in brilliant light. The area at the front of the dishwasher is also well lit, significantly improving loading and unloading. Even when the baskets are pulled out, they are illuminated - a great advantage, especially under less than ideal kitchen lighting.



Extra quiet

Thoroughness that can be seen, but not heard

The Extra quiet programme from Miele washes with only 38 decibels – so quiet as to be almost imperceptible. Ideal for open-plan kitchens and for washing at night.



ComfortClose – the best door concept of our time

Enjoy the easy opening and closing of the Miele door. Comfortable: The door stays in any desired position.



Control panel design

The new, uniform control panel design of Miele built-in appliances harmonises with every kitchen design. The control panel is ergonomically inclined, thus allowing all controls and functions to be easily read and operated.

Design and comfort



AutoOpen

Optimally dried crockery

The dishwasher door opens automatically at the end of the programme. Glasses and crockery are perfectly dry and cool down faster. Even plastic items dry easily. AutoOpen shortens the programme running time and lowers energy consumption significantly.



Salt reservoir in the door

Easily refill salt

The patented salt reservoir is located in the door of the dishwasher. You can refill it comfortably with the door half-open.



Turbo function

Turbo fast for clean dishes

You need clean crockery and glassware in a hurry? With the Miele Turbo function you can reduce the operating time by up to 50 minutes. Cleaning and drying results remain pristinely unchanged.



AutoClose

Automatically closing door

The dishwasher closes automatically and softly with AutoClose from Miele. It is not only convenient, but also elegant – an almost magical moment in your daily routine. Light contact between the door and the appliance is enough – the dishwasher closes by itself with the help of a motor.

Design and comfort



Consistently comfortable: Operating controls

Miele dishwashers pamper you with a control concept of the highest class: Easy to operate touch sensors, text display with clear prompts, inclined control panel for ergonomic handling and ease of reading. The operation of all Miele dishwashers is intuitive and simple.



Intensive lower basket The extra power against grime

The Intensive lower basket option provides strong cleaning power in the lower basket and can be selected as an extra to many wash programmes. At the same time delicate items can be gently cleaned in the upper basket. Thus, Miele combines strong washing power and gentle cleaning.



Efficiency and sustainability

Miele – in a class of its own

The energy label informs you at a glance of the economy and power output of your dishwasher. Miele dishwashers combine the ideal balance between energy and water efficiency. Miele dishwashers have up to 5 WELS water stars, making them one of the most economical dishwashers on the market.

Best results with low consumption
Highest efficiency



Save valuable water

You've never used such an environmentally friendly dishwasher: In the Sensor wash programme Miele dishwashers use as little as 7 litres of water – that's much less water than it takes to fill a sink. Miele has reduced water consumption in its dishwashers by 85% in the last 30 years.

ThermoSave

Save up to 40% energy

Thanks to ThermoSave, any Miele dishwasher can be connected to a hot water connection up 60°C. This means energy consumption can be reduced by up to 40% and running times by up to 9%. Energy consumption also drops to 0.4 kWh in the Sensor wash gentle programme.

Energy	40%
Primary energy	35%
CO ₂ emissions	35%
Costs	36%
Time	9%



Small load – less consumption

Miele dishwashers automatically measure the quantity of items in the wash cabinet and adjust water and energy consumption accordingly. Thanks to the automatic load recognition function, you don't always have to wait until the dishwasher is full before running a programme.

³ Three savings on 365 wash programmes per year with the G 1022 SC model (50% Sensor wash, 25% Pots & pans 75°C, 25% Quick wash 40°C)

Economical and environmentally friendly

Responsibility has a tradition at Miele. For generations our motto “Immer besser” has stood for the high demands placed on our domestic appliances. From the exceptional efficiency of all Miele appliances come low consumption values that are not only environmentally friendly, but also save you money.

Modern Miele dishwashers clean your crockery, glassware and cutlery in the most convenient and ecological way. They use not only significantly less water and energy than washing by hand, but also save half the costs. This has led to Miele reducing water consumption in its dishwashers by 85% in the last 30 years. Along the way you save plenty of time for the nicer things in life.

Cost/Time comparison with washing

Economical and environmentally friendly

	Handwashing	Miele dishwashers
Costs ¹	\$ 1.50	\$ 0.72
Time ²	Washing, drying: 80 minutes	Loading and unloading: 15 minutes



¹ Average costs per wash programme of 12 place settings (incl. investment)

² Expenditure of time per wash programme with 12 settings
Source: R. Stamminger: Washing-up Behaviour and Techniques in Europe Söfw-Journal 132, 3-2006.



Protecting dinnerware

Perfect GlassCare

The best care for your glasses

Soft water is favourable for thorough cleaning, but is also aggressive to glasses. Therefore, all Miele dishwashers feature Perfect GlassCare technology. It ensures that the washing water always has the optimal water hardness. In this way your glasses will be gently cleaned so that you can enjoy them for longer.





DetergentAgent

For the highest cleaning efficiency.

The DetergentAgent adapts the wash sequence to the cleaning components (detergent, rinse aid, reactivation salt) being used and therefore fully utilises the available resources. Miele recommends the separate dosing of detergent, rinse aid and reactivation salt for the best possible cleaning and drying results.



SensorDry

Optimal drying – always.

The room temperature in the kitchen and the size of the load can influence the drying process. SensorDry guarantees the best drying results in the Sensor wash programme, even under less than ideal conditions.

Technology and quality

Technology and quality – designs

Freestanding dishwashers:

Able to stand alone, self-sufficient appliances with a robust cover that can be used as a worktop. Because the appliance is not built-in, it can be easily removed when moving house and installed in the new kitchen.



Built-under dishwashers:

Ideal as a replacement appliance in an existing kitchen run. The appliance can be built under a worktop. The front panel and plinth are available in brilliant white and black.



Integrated dishwashers:

The front of the appliance and the control panel can be disguised by the decor of the built-in kitchen – for a seamless kitchen design. An alternative is the front panel in CleanSteel.



Fully integrated dishwashers:

The entire front panel is covered in the individual decor of your kitchen or with Miele CleanSteel. This allows the dishwasher to integrate perfectly into the design of your kitchen.



Technology and quality – safety



XXL dishwashers:

Built-under, integrated and fully integrated dishwashers from Miele are available in standard height (81 cm), as well as in the XXL version (85 cm). Miele XXL dishwashers offer 4 cm additional height in the wash cabinet that benefit the upper basket: The higher basket provides more flexibility and better positioning possibilities, e.g. for long-stemmed glasses, large coffee mugs and plates up to 23 cm Ø.



CleanSteel stainless steel:

Fewer fingerprints – more ease of operation

Miele control panels in CleanSteel have a special surface finish. It protects the surface from visible fingerprints. CleanSteel can also be cleaned easily without special cleaning agents.



Waterproof system:

To protect against water damage, all Miele dishwashers are fitted with the Miele Waterproof system.




Safety lock, indicator lights:

The safety lock in the handle protects against unwanted access to the dishwasher, e.g. by children. Highly visible indicator lights let you know when things such as salt or rinse aid need to be refilled or when the programme has finished.

Wash programmes



You're guaranteed to be prepared for every situation with Miele wash programmes. Whether it be too little time, delicate dinnerware, heavy soiling or the wish for energy-saving programmes.

Extra info: 

The glass symbol behind the programme name shows you which programmes can clean your delicate glasses especially gently.

Sensor wash: The all-round programme

The simplest way to clean your dinnerware perfectly. This programme recognises the load quantity, as well as the degree of soiling of items, and adjusts the programme sequence accordingly. Water, energy and time are all used as sparingly as possible – efficiency the Miele way!

Light soiling 50°C: The artist of everyday life

Ideal for crockery with lightly dried-on food deposits from everyday use. Also practical for everyday life – where time is of the essence.

Sensor wash gentle : For fine and delicate items

This programme is designed for the needs of heat-sensitive glassware and crockery with light soiling. Also in this programme a sensor measures the degree of soiling of the water and adapts the programme sequence.

Wash programmes

Pot & pans 75°C:

The specialist for stubborn soiling

Heavily soiled crockery with dried-on food deposits, pots and pans – the Pots & pans 75°C programme is the specialist. Even crockery coated with starch and protein food deposits gets its shine back.



Hygiene: For a flawless clean

The ideal programme for uncompromising hygiene. Bacteria from baby bottles, chopping boards or utensils etc. are removed with the help of an extended programme duration at 70°C. The renowned German WfK Institute recommends the Miele Hygiene programme and confirms the 100% removal of germs during the tests it has undertaken.



Wash programmes



Energy save:

Minimal energy and water consumption

This programme is a true world champion of efficiency. Due to longer reaction times at lower temperatures, energy and water consumption can be minimised. This allows you to be gentle on the environment and your wallet, and always with perfect cleaning results.



Quick wash 40°C:

Clean dishes in 33 minutes

The speedy programme for fresh and lightly dried food deposits. With the short programme duration of only 33 minutes, dishes are able to be used again quickly – ideal during a party, for example.

**Extra quiet:**

The Extra quiet programme from Miele washes with only 38 decibels – so quiet as to be almost imperceptible. Ideal for open-plan kitchens and for washing at night.

**Pre-wash:**

Ideal for single people or small households: If dishes are left in the dishwasher for a longer period of time because it is not worth running a complete programme yet, you can prevent the build-up of odours by using the Pre-wash programme. Dried-on food deposits are rinsed once without detergent.

Wash programmes

Further programmes for special demands



Beer glasses

The perfect head can only form if the glass has been rinsed in cold water and is free from grease deposits and rinse aid. The beer glass programme is ideal for when beer glasses are used again immediately for freshly draughted beers. The warm beer glass programme, with an integrated drying phase, is best used for the final cleaning of glasses so they are ready for the next party.

Pasta/Paella/Raclette

After hosting a dinner party at home, the last thing you want to do is clean up the entire kitchen. This is not a problem for our special programme. This even gets stubborn food deposits from pasta, rice and potatoes under control.

Plastics

Plastics have special requirements during dishwashing as they don't dry as well as other materials and cannot be washed at very high temperatures. For this reason, Miele has developed a specific programme for plastics. Reduced rinsing temperatures and an extended drying phase ensure the best cleaning and drying results for your dishwasher-safe plastics.

Without heater

The benefits of ThermoSave come into their own in the Without heater programme. Water is not additionally heated up by the machine. This saves a lot of energy. This programme is recommended for light to normally soiled crockery, and with a hot water connection with inlet temperatures of at least 45°C.

No upper basket 65°C

By removing the upper basket, more space is created in the lower basket for large, awkward items such as tall vases.

Intensive 65°C

Ideal for heavily soiled crockery with dried-on food containing starch, e.g. potatoes and rice.

Basket design

General instructions on loading your dishwasher

- Make sure the water from the spray arms can reach all items in the dishwasher. Items shouldn't touch or sit inside one another.
- Before starting a programme, ensure the spray arms move freely and are not obstructed by tall items. Miele dishwashers use three spray arms for perfect cleaning results. Miele dishwashers with spray arm indicator lights inform you when the spray arms are unable to move freely.
- Place items in the baskets upside down and at a slight angle. Residual water will be able to run out more easily and items will dry better.



Extra tip:

The adjustable components of Miele dishwasher baskets are coloured yellow.



Cutlery tray

Place cutlery in the cutlery tray as shown in the picture. Each piece of cutlery has its own secure place and will be cleaned and dried with optimum results. Cutlery is not scratched and can be removed hygienically, quickly and ergonomically. On top of this, more space is made available in the lower basket.

The height of the middle section can be varied in models with the 3D cutlery tray. This enables even bulky items such as soup ladles or egg whisks to be easily accommodated. Moreover, the side sections of the 3D cutlery tray can also be adjusted: both side sections can be quickly and easily pushed towards the middle. This frees up space in the upper basket for tall items such as long-stemmed wine glasses.

Extra tip: To make unloading much easier, cutlery should be grouped in zones: one for knives, one for forks, one for spoons, etc.

Extra tip: The middle section of the cutlery tray is easy to lower. There is room here for larger pieces of cutlery such as egg whisks, wooden spoons or soup ladles.

Basket design



Ergonomic basket handles

Miele's ergonomic basket handles make loading and unloading easier. High quality materials underline the high quality demands.



MultiComfort in the lower basket

Plates of various sizes (up to 35 cm Ø) can be placed in three rows in the new and unique MultiComfort section. Even chopping boards, platters and receptacles such as bowls or beer glasses can be placed here while still saving space. The entire lower basket can be transformed into a large, flat surface to accommodate large pots and awkwardly shaped items.



The best place for your glasses

Optimum positioning possibilities for glasses: Height adjustable glass holders and a special glass rail in the lower basket provide the perfect hold for long-stemmed glasses, while maintaining a brilliant and gentle clean.



Hinged bottle holder

Bottles, vases or other slim and tall receptables are given an immovable position on the bottle holder. The bottle holder is positioned in such a way that the water from the spray arms thoroughly cleans the inside of bottles and glasses. If space is needed for other items, the bottle holder can simply be folded down.

Basket design



Height adjustable upper basket

The height of the upper basket can be adjusted effortlessly on all Miele dishwashers, even in the tilted position. A total of 9 positions are possible. This enables you to utilise the best potential of the wash cabinet every time you run a programme.



Jumbo cup rack in the upper basket

Large coffee mugs, standard coffee and tea cups and cereal bowls – the width adjustable Jumbo cup rack is the perfect place for a wide variety of items.



Height adjustable glass rack in the upper basket

Many guests, many glasses? Not a problem for a Miele dishwasher. With the height adjustable glass rack on the left-hand side of the upper basket, you can create more possibilities for long-stemmed glasses.



Hinged spikes in the upper basket

The left-hand side of the upper basket can be loaded with cups and glasses with the hinged spikes or be used as a flat surface for bowls and casserole dishes.

Basket design

Is your crockery even more individual?

We offer you numerous special features to meet special needs



Cutlery basket

The new cutlery basket has a modern and high quality appearance. It excels with flexible loading possibilities on the front row of spikes in the lower basket. Retrofitting the cutlery basket for customers who have a dishwasher with a cutlery tray is always a possibility.



Glass rack in the lower basket

The glass rack offers the possibility of an extra, third row for glasses in the lower basket. This enables up to 13 long-stemmed wine glasses to be placed in the lower basket.



Cappuccinatore insert

The insert enables thorough cleaning of all seven parts of the Miele Cappuccinatore milk frother.



Miele CareCollection detergents and conditioning products

There are four factors involved in attaining the perfect clean in a dishwasher. These are shown below in the so-called Sinner Circle.



Miele has already perfectly matched three factors. Add the CareCollection to the equation and now all four factors are covered.

Miele CareCollection and conditioning products have been developed and tested by experts in cooperation with Miele and are therefore perfectly suited to Miele appliances.*

Before we look at the Miele CareCollection and conditioning products in more detail, we would like to give you some advice on the basics of dishwashing.



*The survey was only carried out for CareCollection washing

Different water hardnesses – consistent cleaning results?

In order to achieve good cleaning results, the dishwasher needs to operate with soft water. Water with a low calcium and magnesium ions content is identified as soft and water with a high content is hard.

Hardness range

Hardness range	Water hardness	Degree of hardness (°dH)
soft	< 1.5	< 8.4
medium	1.5–2.5	8.4–14
hard	> 2.5	> 14





In order to achieve good cleaning results independent of regional water hardness, all Miele dishwashers are fitted with a water softener. This softens the incoming mains water and guarantees optimum conditions during wash programmes.

Extra tip: If the water hardness fluctuates, always programme your dishwasher to the higher value. This will ensure that the water softener realises exactly when reactivation salt is needed.

Two different concepts: Combi tabs and individual detergents

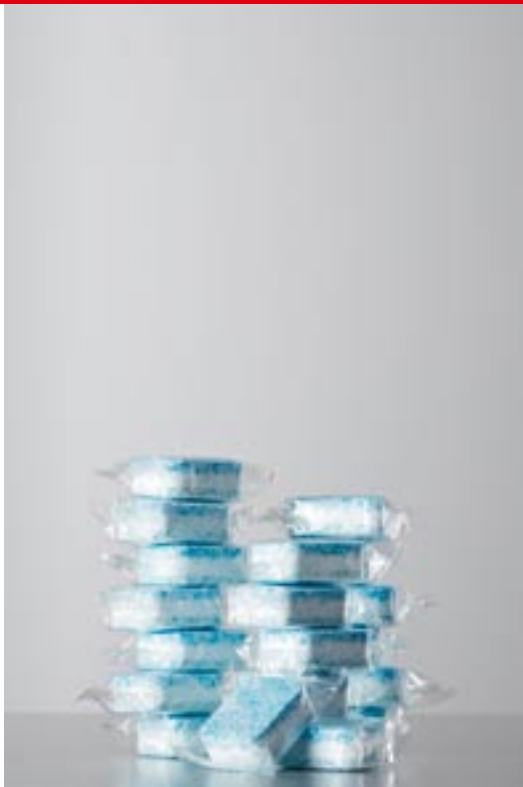
Individual detergents are cleaning agents whereby reactivation salt and rinse aid are added separately. These cleaning agents are available in powder, tab, or gel form. In addition to a cleaning detergent, combi tabs contain rinse aid and water softener (salt substitute). These products are known as “3 in 1”. Furthermore, there are always new additional components such as glass and stainless steel protective additives and enhanced cleaning power, so that combi tabs now come in “9 in 1” and “All in 1”.

Use combi tabs only in the water hardness range recommended on the packaging. In regions with a higher water hardness level the water softening function in combi tabs may not be sufficient under certain circumstances.



The Miele CareCollection – dishwashing with a system

No supermarket dishwashing or cleaning agent can achieve similar results for all appliances. That's why there are now Miele dishwashing and cleaning agents specially designed for Miele dishwashers.



Miele Tabs

Special Miele formulation – for the best cleaning results in Miele dishwashers.

- No need to unwrap due to the water soluble foil wrapping
- Radiant cleaning results even with stubborn soiling
- Glass protection formula to prevent glass corrosion
- Special protection against marks on silver and stainless steel

To get the best results, we recommend the complete CareCollection system from Miele: Tabs, rinse aid and salt are made to complement one another – perfect for Miele dishwashers.

Miele CareCollection detergents and conditioning products

Miele dishwasher detergent powder



Special Miele formulation – for the best cleaning results in Miele dishwashers.

- With super enzymes – effective even at low temperatures
- Active oxygen for a thorough clean
- Glass protection formula to prevent glass corrosion

Miele dishwasher rinse aid



Special Miele formulation – for the best drying and care in Miele dishwashers.

- Luminous shine for your glasses
- Supports the drying of your crockery
- Glass protection formula to prevent glass corrosion
- Dispensing is made more accurate with the handy squeeze bottle.

Extra tip:

Wipe up any spilled rinse aid. This prevents over-foaming occurring during the next programme.

Extra tip:

Please ensure that you only use rinse aid designed for domestic dishwashers. Washing up liquid or detergent may irrevocably damage the rinse aid reservoir.

Miele dishwasher salt



Special Miele formulation –
for the best cleaning results
in Miele dishwashers.

- Extra coarse grains
- Prevents residual deposits

care collection

You can purchase the Miele CareCollection
from the Miele online shop or Miele Galleries



www.mieleshop.com.au

Miele CareCollection detergents and conditioning products

Conditioning products – giving you years of enjoyment with your Miele dishwasher

Miele dishwasher conditioning agent



The Miele dishwasher conditioning agent removes light deposits without a trace. It not only reduces the workload of the person who cleans the dishwasher, but also works as preventative cleaning for your appliance. Even if deposits are not clearly visible, tiny impurities may still have made their way into unseeable areas.

Extra tip:

If you regularly wipe the door seals with a damp cloth and a few drops of the Miele dishwasher conditioning agent, they will stay supple and elastic for years to come.

Miele dishwasher cleaner



Stubborn soiling may appear on heavily used and older dishwashers that is not able to be completely removed by a conditioner. A dishwasher cleaner is recommended in such instances.

Due to its highly concentrated ingredients, heavy soiling is easily removed. The oxygen-based bleaching agent contained in the Miele dishwasher cleaner connects with the unwanted deposits and loosens them. The appliance is protected against premature wear and tear.

Miele conditioning products

You can obtain Miele conditioning products
from your Miele
Chartered Agent,



the Miele
online shop,



or from Miele itself.
(1300 220 390)

Types of crockery and their care





Glass, porcelain, plastic, silver, stainless steel, wood, ... These materials are used in almost every household. As varied as these materials are, their cleaning and care demands are just as varied.

In order to optimally and gently clean your crockery, always follow the instructions of the crockery manufacturer, the detergent manufacturer, and the recommendations of the appliance manufacturer. Only through the interaction of the dishwasher, crockery and detergent will the longevity of enjoyment of your crockery be guaranteed.

The following pages contain all-round useful information and tips concerning your crockery.

Types of crockery and their care


Glassware:

Glass is used in just about every household because of its optimum useful properties such as clarity, shine, taste and odour neutrality. The production of glass is based on a mixture of sand and various metal oxides such as potassium and magnesium that fuse between temperatures of 1500–1800°C.

After frequent washing, changes to the surface of the glass can sometimes be perceived. This is due to tiny deterioration that becomes visible as a milky tarnish or iridescence. Such deterioration cannot be reversed and is therefore irreparable.

Tarnish can be caused by many different factors. If you heed the following rules, you will have years of enjoyment with your glassware:

- When purchasing new glassware, make sure that it is “dishwasher-safe”. Glasses that are identified in this way have been tested for at least 1000 wash programmes.
- Set the water softener in your dishwasher to the local water hardness level. Your local water authority will be able to provide you with information on the water hardness in your area.
- Wash your heat-sensitive glassware in programmes indicated by a glass symbol.

- Ensure that glassware is not knocked against other hard objects, either during use or when loading the dishwasher. Otherwise traces of scratches will occur that will not be immediately visible to the naked eye.
As glassware is put through more wash cycles, these scratches become more visible.
- Use a detergent with an integrated glass conditioner, e.g. from the  Miele CareCollection.

Recommended wash programmes:
Sensor wash gentle, Quick wash 40°C,
EnergySave, Light soiling 50°C, Without
heater, Glassware warm, Glassware cold

Extra tip:

Deposits on glasses can also occur due to limescale in water or detergent residues that are left on the surface of glasses during the drying phase. These deposits can be removed with a damp cloth and/or a small amount of machine conditioner or citric acid.



All Miele dishwashers contain Perfect GlassCare. This ensures that the water hardness level is properly adjusted for the care of your glassware.

Types of crockery and their care

Ceramics:

The original term “keramos” comes from the Ancient Greek and was used at that time for clay and the manufactures produced from it when fired. The manufacture of pottery is one of the oldest forms of agricultural engineering of humankind. Ceramics consist mainly of clay or kaolin, feldspar and quartz. Water is added and these ingredients are shaped, dried and finally baked. The ceramics are then glazed. Ceramics are divided into heavy and fine ceramics, depending on the size of the grains. Household crockery consists predominantly of fine ceramics. These are in turn sub-divided into four groups: Earthenware (crockery), stoneware, porcelain and Bone China.



Porcelain:

It can generally be said about the dishwasher suitability of materials: the harder and less porous the material, the better

the suitability for dishwashers. Also of decisive importance for suitability in dishwashers is the type and application of decoration. Decorations are differentiated into:

- Underglaze decoration: The decoration lies under the protective coat of glazing and cannot be corroded. The surface of this type of decoration feels even and smooth. This type of decoration is generally suitable for dishwashers.
- In-glaze decoration: In-glaze decorations are applied to already glazed crockery. The decoration sinks into the re-softened

glazing at temperatures between 1150–1250°C and is then sealed in by the glazing cooling down. These types of decoration are also generally suitable for dishwashers.

- On-glaze decorations: Porcelain on-glaze decorations are applied directly to the surface of the porcelain and are baked on at comparatively low temperatures of around 800°C. When washing in a dishwasher, care must be taken as the decoration is very sensitive due to the low temperatures at which it is baked on. Most crockery with a gilded rim has an on-glaze decoration.

Recommended wash programmes:
All Miele wash programmes*

* not suitable for on-glaze decorations



Stainless steel:

Stainless steel constitutes all ferrous alloys that are not prone to rusting, unlike iron and basic steel. This is made possible by mixing other metals, above all chrome and nickel. A large part of stainless steel cutlery and dishes such as pots, pans and underplates are comprised of stainless steel 18/10 (chrome 18%, nickel 10% and iron 72%). This stainless steel is rust-proof and anti-magnetic and therefore dishwasher-safe. Under unfavourable conditions stainless steel can corrode/rust sooner or later. However, if you adhere to the following pieces of advice, you can actively prevent corrosion:

- Ensure that stainless steel doesn't come into contact with chlorides in the form of cooking salt in drinking water or food residues for a long period of time.

- Do not wash objects in the dishwasher on which rust has already formed (e.g. screws on pots and pans not made of rust-proof material). Due to the circulation of water in the dishwasher, rust particles can settle on stainless steel items.
- Brown, blue or pearlescent iridescent colours on stainless steel occur due to the reaction of hydroxide ions with mineral compounds during cooking and roasting of certain types of vegetables or fish. These discolourations are completely harmless to humans. They can be easily removed with a damp cloth and a little machine conditioner or citric acid.
- Run the Quick wash 40°C programme after filling the salt reservoir.

Recommended wash programmes: All Miele wash programmes

Extra info: Induction pots and pans have a layer of iron at the base which is coated in stainless steel. The base is made magnetised by the layer of iron. The stainless steel coating means that these pots and pans are also dishwasher safe.

Extra tip: All stainless steel components in Miele dishwashers that come into contact with detergent suds are made of stainless steel 18/10.

Types of crockery and their care



Silver:

Silver cutlery is beloved by gourmets for its striking appearance and excellent thermal conductivity. The temperature of the cutlery adjusts to that of the food and guarantees a taste experience of the highest class. The most common types of silver for cutlery are 800 silver (80% silver and 20% copper) and sterling silver (92.5% silver and 7.5% copper). The addition of copper makes the cutlery harder and more resistant to wear and tear.

Silverware is coated with silver plate. A 90 silver coating is predominantly used. The supporting material is normally stainless steel or a composition of copper, zinc and nickel. It is generally not a problem to wash cutlery with a 90 silver coating in the dishwasher. However, the following tips should be taken into consideration:

- Discolouration of silver occurs due to sulphur compounds in food residues (e.g. egg yolk, mayonnaise, mustard, onions, pulses, fish, marinades, ...) or gases (e.g. air). Try to ensure that contact with these foods is as brief as possible.
- Due to high cleaning temperatures, the reaction capabilities of silver may be promoted. Clean silver at lower temperatures.
- Ensure that silver and stainless steel cutlery do not come into contact with one another.

Recommended wash programmes:
EnergySave, Sensor wash gentle, Light
soiling 50°C

Aluminium, tin, copper and brass:

These materials can discolour or become matt when washed in a dishwasher.



Wood:

Cutlery and dishes made out of wood, or with wooden parts, are not suitable for dishwashers because the wood may crack and swell. If the glues used are not suitable for dishwashers, wooden parts may come apart.

Types of crockery and their care



Plastics:

Storage containers, mixing bowls, children's crockery, ... plastics are used in many different ways, as they are much lighter, more flexible and resistant to breakage than porcelain. The following advice should be heeded when washing in a dishwasher:



- Plastic dishes can generally be cleaned in a dishwasher. Above all, so-called curable plastics are completely suitable. Curable plastics can be washed at temperatures up to 50°C in the dishwasher.
- If plastics come into contact with foods such as carrot, beetroot or tomato, they may discolour slightly. Remove natural dyes from crockery before washing in the dishwasher.

- Plastic is lighter than other forms of crockery. Therefore, ensure that plastic items are positioned securely in the dishwasher.
- Plastic has a lower heat storage capacity and dries more slowly than other materials. The Plastics special programme is specially designed to meet the demands of plastics and guarantees perfect results by means of low wash temperatures and an extended drying phase. AutoOpen provides extra support in the drying phase by opening the door automatically at the end of the programme.

Recommended wash programme: Plastics

Nowadays dishwashers relieve us of a great deal of bothersome housework. In order for your dishwasher to achieve the results that you deserve, we would like to give you some tips on how to get the best out of your appliance.

The six steps of dishwashing:

1. Remove large food residues before placing items in the dishwasher. Using a kitchen towel or a fork to deposit any waste in a rubbish will suffice.
2. Do not pre-rinse dishes by hand.
3. Load dishes as described in the point on basket design.
4. Load the dishwasher to capacity. In this way you take advantage of the efficiency potential of your dishwasher and wash with much less water.
5. Ensure that reactivation salt and rinse aid are always present in your dishwasher. The dishwasher will remind you if salt or rinse aid need to be topped up. If you are using combination tabs, activate the Tab function on your appliance.
 CareCollection
6. Select a programme or temperature that is suitable for the type of crockery and the degree of soiling.
 Wash programmes



Care for your loyal helper

In order for your dishwasher to retain its cleaning power for the longest possible time, from time to time it needs a certain degree of attention. This is no different from your car that needs to be washed and serviced at regular intervals.

Details on cleaning and care can be found in the operating instructions for your appliance.

- Clean the filter combination in the dishwasher floor at regular intervals (approx. every 2 months). Food residues can collect here over time. When replacing the filter, ensure that it is flush with the floor of the wash cabinet and that the handle clicks into place. The Miele filter control indicator reminds you at regular intervals to clean the filter.
- The spray arms should also be cleaned from time to time. Food deposits can accumulate in the jets and bearings of the spray arms if the filter combination has not been inserted correctly.
- As far as possible, the spray arms of Miele dishwashers are self-cleaning if the correct amount of detergent is always used and a programme with a high wash temperature is selected now and then. However, should limescale deposits or grease build up over time, they can be removed with a machine conditioner or cleaner. 🧼 Cleaning products
- Wipe the door seals regularly with a damp cloth to remove food deposits.

- If food deposits fall onto the side of the door when loading the dishwasher, wipe them off. These don't form part of the wash cabinet and won't be cleaned during a programme.



Residue on crockery...

Ash

If ashtrays have piled up after a party, care needs to be taken with the cigarette ash: Ash doesn't dissolve in the dishwasher and is dispersed throughout the appliance, including onto other crockery. Therefore, ash should be washed by hand and not in a dishwasher.

Colour

Do not place any water insoluble paint residues in the dishwasher. These could damage the dishwasher.

Green cabbage

If this typical winter vegetable is stuck to your crockery, try the following cleaning tips: 🍷 Spinach.

Herbs

Whether it be garlic, parsley, mint, thyme or chives: To remove herb residues, slightly increase the detergent dosage.

Lipstick

Lipstick is made up of wax and colour pigments. While wax melts during a wash programme due to high temperatures, colour pigments are harder to loosen. Increase the amount of detergent used to loosen the colour pigments from the glass surface.

Coffee stains

The average Australian drinks around 3 kg of coffee per year. To avoid discovering brown stains on your cups, use a detergent with extra bleaching agent:

🍷 CareCollection.

Rust on dishes


Do not wash any items in the dishwasher that already have rust on them. The washing process may transfer the rust onto other items.

Sand

Sand is often used in households for decoration purposes or as heat protection in lanterns. Before washing lanterns in the dishwasher, thoroughly remove all sand. The sand could otherwise accumulate in the circulation pump or spray arm bearings and block them.



Removing salt residues

After refilling the salt reservoir, run the  Quick wash 40°C programme to avoid pitting corrosion.



Spinach

Spinach is not water soluble and therefore will be dispersed throughout the machine by the water. Because spinach sticks to smooth surfaces, it finds its way quite easily to other items in the dishwasher. Select a programme with an integrated pre-wash or the Sensor wash programme. If needed, increase the amount of detergent used.

Tea stains

Tea stains occur when black tea is brewed with hard water and left to stand. A detergent with an increased bleaching effect will remove any stains so that you can enjoy your afternoon tea without any problems.

 CareCollection

Wax

Traces of wax are often found in lanterns after candles have been burned down in them. Do not wash items with wax on them as it is insoluble in water and may damage your dishwasher.

Water stains

Water stains may be caused on the one hand by limescale deposits. Check the water hardness that the dishwasher is programmed to and the quantity of salt in the salt reservoir. On the other hand, water stains can form on glass if water doesn't run off properly. In this case increase the rinse aid dosage.



Problem solving guide

Grease deposits

Grease deposits occur in the dishwasher if too little detergent is used over a long period of time. Ensure that the wash programme is appropriate for the degree of soiling and always use as much detergent as is necessary. Detailed information can be found under the heading “Wash programmes”. To remove grease deposits, use a machine conditioner or cleaner.

 Cleaning products

Build-up of odours in new dishwashers



Everyone has a different sensitivity to odours and therefore perceives them differently. New dishwashers – like new cars – have their own particular odour from production. The noticeable odours are in no way risky or dangerous to your health. They will disappear after a few wash

programmes have been run. In case you don't want to wait so long, a wash cabinet deodorant would also be suitable.

 Cleaning products

Odour formation in dishwashers that have been used for some time

A formation of odours can have many different reasons. Try the following tips:

-  Care for your loyal helper
-  Limescale deposits in the wash cabinet
- Residues in the area of the door seal: Clean the door seals with a damp cloth and, if needed, a little machine conditioner.
- Clean the filter combination.
- Crockery is collected in the dishwasher over a certain period of time. Food residues can begin to smell. Use the Pre-

wash programme to remove coarse food residues. A wash cabinet deodorant (👉 Cleaning products) gives your dishwasher a fresh fragrance.

- Unpleasant odours may be caused by faulty installation of the water inlet or drain hoses. Therefore, check the hose connections.

Extra tip: Store glasses with the opening facing upwards. The glasses will be aired and odour molecules will be able to escape. Musty smelling glasses may be a sign of glass corrosion. The surface of the glass becomes more porous with each wash and odour molecules accumulate.

👉 Glass corrosion

Shine


Are your crockery and glasses missing that certain shine after being washed?

- Milky films: These can be caused by limescale deposits on the glass. Check whether the water hardness has been correctly programmed into the dishwasher and whether there is sufficient salt in the salt reservoir. A further possibility is detergent residues. Check the dosage recommendations of the detergent manufacturer.
- Irremovable cloudiness:
 - 👉 Glass corrosion
 - 👉 Water stains

Extra tip: Whether it is glass corrosion or a milky film, you can find out quite easily with the help of a damp cloth and a little citric acid or machine conditioner. If deposits are easily removed, it is probably limescale deposits or water stains. If cloudiness cannot be removed, the cause is glass corrosion.

Glass corrosion

Glass corrosion is micro-fine deterioration of the glass surface. It is caused by components dissolving away from the glass structure. This results in a modified light diffusion that becomes visible as a milky tarnish or iridescence in different shapes.

Glass corrosion is irreversible, i.e., it cannot be removed or repaired. There is only one solution: Replace your glasses with new ones. See  Glassware for general tips on cleaning and care of your glasses.

Milky films on glasses

In most cases these are caused by limescale deposits. Check whether the water hardness has been correctly programmed into the dishwasher and whether there is sufficient salt in the salt reservoir.

Extra tip: When purchasing new glassware, make sure that it is “dishwasher-safe”. Due to new production processes, the suitability of glasses for dishwashers has been greatly improved. Glasses labelled as dishwasher-safe have been tested for 1000 wash programmes.

Limescale deposits in the wash cabinet

The use of a machine conditioner or cleaner leaves your wash cabinet shining like brand new. As a provision, in case you dose separately: Ensure there is sufficient regeneration salt in the appliance and that the water hardness is programmed in correctly.

Granulose or sand-like residues

If too much detergent is used, it may settle on crockery. Another reason may be larger quantities of food deposits containing starch. Remove large quantities of foods containing starch before loading into the dishwasher.

Mat deposits

Mat deposits are caused by deposits of starch. These come from such foods as potatoes, flour, sauces and pulses. Check whether the crockery is correctly sorted in the dishwasher: 🍷 Basket design. Each item must have the chance to be reached by the water from the spray arms. Try increasing the amount of detergent slightly.

Caring for your dishwasher

Remember to use a machine conditioner from time to time. It will remove light limescale and grease deposits, as well as discolourations, from your appliance and will also clean the visible areas inside your dishwasher. A machine cleaner is suitable for effective cleaning of your dishwasher.

 Cleaning products

Cleaning agent clumps together and is not rinsed out properly

When loading the dishwasher, ensure that no large items are placed directly in front of the detergent dispenser so that it can open without obstruction during the programme. Store cleaning products in a dry place so that they don't clump together.

Add detergent to the dispenser shortly before starting the programme. Otherwise the detergent can come into contact with remaining water in the detergent compartment and clump together. If you are using Delay start, wipe dry the detergent compartment beforehand.

Foam build-up

Excessive foam build-up, apparent in the wash cabinet after a programme has finished, is often the result of using too much rinse aid or detergent. Check the dosage recommendations of the detergent manufacturer. Wipe off overrun residues.

Iridescent colours

Various iridescent colours may form on stainless steel pots and pans or in the wash cabinet.

Solution for the wash cabinet: Use a machine conditioner or cleaner in accordance with the manufacturer's instructions.

Cleaning products

Solution for deposits on dishes: Remove deposits with a damp cloth and some machine conditioner or citric acid.

Streaks on glasses

If the streaks can be removed, they are most probably the result of using too much rinse aid. Reduce the amount of rinse aid as described in the operating instructions. If the streaks cannot be removed, they are the result of glass corrosion.

Silverware is tarnished

Follow the tips for caring for silver. If silverware is tarnished for the first time, the only solution is a special cleaner for silver.



Drying – Crockery doesn't dry properly

Small pools of water in the protruding base of crockery cannot always be avoided.

Drying by hand afterwards is often not necessary and the problem can be resolved with a few simple tricks:

- Increase the amount of rinse aid.
- Ensure that you only activate the Tab function when using combination tabs. The rinse aid dosage is reduced to a minimum when the Tab function is activated.
- If you are using combination products and are not satisfied with the drying result, trying using an individual detergent and separate rinse aid.
- Open the door after the programme has finished. This will allow the warm steam in the dishwasher to escape,

thus assisting the drying process.

Our AutoOpen function opens the dishwasher automatically after the end of a programme.

-  Basket design

Discolouration on crockery and plastic items

Discolouration often occurs on plastic items. This is completely harmless and cannot endanger your health. The discolouration comes from natural dyes in foods such as tomato sauce and beetroot. Use a detergent with an increased bleaching effect or increase the amount of detergent used.

Extra tip: Discolouration can sometimes be removed with a cloth and some cooking oil.

Water in the wash cabinet at the end of a programme

If this occurs, check the filter combination first. Then check the drain pump and the non-return valve. For a thorough explanation of how to do this, please refer to the Operating instructions.

Miele Australia Pty. Ltd.

ABN 96 005 635 398

Melbourne:

1 Gilbert Park Drive

Knoxfield, VIC 3180

Telephone: (03) 9764 7130

Fax: (03) 9764 7149

Sydney:

3 Skyline Place

Frenchs Forest, NSW 2086

Telephone: (02) 8977 4230

Fax: (02) 8977 4249

Brisbane:

39 Harvey Street North

Eagle Farm, QLD 4009

Telephone: 1800 798 578

Fax: 1800 799 578

Adelaide:

83-85 Sir Donald Bradman Drive

Hilton, SA 5033

Telephone: 1800 018 770

Fax: 1800 799 578

Perth:

205-207 Stirling Highway

Claremont, WA 6010

Telephone: 1800 094 872

Fax: 1800 799 578

www.miele.com.au

Miele New Zealand Limited

Unit L, 10-20 Sylvia Park Road

Mt. Wellington, 1060, Auckland

New Zealand

Telephone: 0800 264 353

Fax: 0800 463 453

www.miele.co.nz

Germany**Miele & Cie. KG**

Carl-Miele-Straße 29

33332 Gütersloh