

NMF®



Innovative collecting
of recycling of
microfiber cloths & mops

FIRST RETURN SYSTEM FOR MICROFIBER

 **TAKE BACK**
by NMF

Microfiber Return System

From microfiber to industrial roll

As it is now, used mops and cloths are thrown out with the daily waste disposal.

They are burned and valuable material is wasted. Nordisk Microfiber (NMF) wants to change that.

That is why we are launching TAKE BACK by NMF.

NMF was the first to develop and innovate a complete return system for microfiber cloths and mops.

The system works best when it is used. The more people who submit, the more we help the environment together.

When you use the return system, you receive a certificate every year. This documents the amount of recycled microfiber and the CO₂, water, and energy you have saved by making a new product from used cloths and mops.

We collect. We sort. We recycle.

The return system works quite simple. All you have to do is put away the used cloths and mops in NMF's return bag. The requirements are few: cloths and mops must have The Nordic Swan Ecolabel, and they must be handed in clean and dry. We accept all manufacturers, as long as they have The Nordic Swan Ecolabel.

When the bag is full, the person in charge at your workplace will book the collection. NMF Transport will then come and collect the used microfiber products.

The products are sorted by NMF before they are sent for recycling. All the products are broken down at a Danish textile mill, and afterwards the industrial rolls are produced from the broken down fibres. The industrial roll can then replace the traditional paper roll used for wiping, covering and absorbing in the industry.



We collect.
We sort.
We recycle.



We accept all brands, as long as they have The Nordic Swan Ecolabel.

Waste to resources

Reuse textile waste

The return system is innovative because microfiber is not just ordinary textile as we know it from clothes. Microfiber is a mixed textile of polyester and polyamide as well as nylon, which is why it is not just straightforward to recycle.

To take care of our environment, we took the challenge upon ourselves, and after more than 2 years, we have developed a complete system and production of a new product. The result of this is to give microfiber a new life as industrial rolls (see product on page 11).

In this way, waste becomes resources, because microfiber gets extra life rather than being burned.



The UN's Sustainable Development Goals

The return system contributes to The Sustainable Development Goal number 12 through recycling and reducing waste.

It contributes quite specifically to sub-goal 12.5:

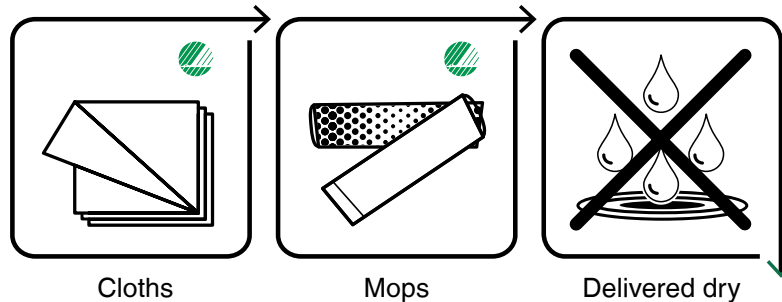
"By 2030, substantially reduce waste generation through prevention, reduction, recycling, and reuse".



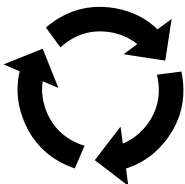
**Nordic Swan Ecolabelled cloths and
mops on their way to recycling**

TAKE BACK by NMF

Guide to returnsystem



Scan and order collection



Nordisk Microfiber ApS • Agerhatten 27A • 5220 Odense SØ

DELIVERY

Used microfiber cloths and mops

Delivered dry

Only Nordic Swan Ecolabelled products

All brands can be returned

COLLECTING

Scan QR code

Enter address and number of bags

Put in a visible place

Collected within 5 working days

DOCUMENTATION

Annual certificate

Documentation for your quantity recycled microfiber and CO₂ savings

Collected, sorted and recycled in Denmark

3 signs

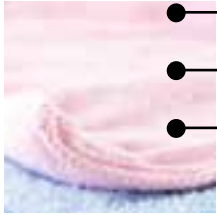
Check if the cloths/mops are worn out

It is important that a microfiber cloth/mop is only sent for recycling when it is completely worn out. The longer a cloth/mop lasts, the more sustainable it is.

Wash after cleaning, exactly as you usually do.

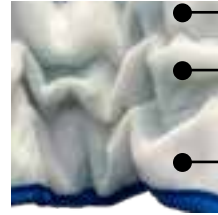
Once the cloths and mops are clean and dry, it's time to check them. If they are still usable, put them back in place. If they are worn out, throw them in the return bag.

Worn out cloth



- Stiffness in the cloth.
- Rolled up cloth.
- Does not absorb liquid.

Worn our mop




- Wavy and crooked mop.
- Holes in the velcro or poorly attaching.
- Hard yarn that does not absorb liquid.



See how easy it is to send back and make a difference to the environment.

Scan and watch the video.





An annual certificate documents the positive effects on the environment.

Documentation

Annual certificate

When you use the return system, you receive a certificate every year, which is documentation of the concrete difference you make to the environment.


The certificate contains:

- Amount of microfiber products sent back
- Power saving
- Water saving
- CO₂ savings
(recycled rather than incinerated)

For the least possible CO₂ emission TAKE BACK by NMF is 100% Danish.

This means that we collect, sort and recycle in Denmark.

Make a difference to the environment: hand in used cloths and mops for recycling.



67,4% less
CO₂ emission

Recycling of microfiber

Why not to new microfiber products?

If we recycle from textile to textile, the technology is not yet developed enough to solve that task.

The textile composition in microfiber is more complicated than textiles for clothing, when it comes to options for recycling.

We follow developments closely and constantly optimize our processes so that they are adapted to the latest and best technological solutions.

Recycle microfiber with NMF

"The textile industry lags behind when it comes to resource utilization. Today, only a very small part of our textile waste is recycled, and there are no effective technologies for separation of mixed textiles"*.

And it is only within the clothing waste fraction that there are well-established collection systems. Microfiber is further down the waste hierarchy, which is why it continues to be burned. Unless it is collected through TAKE BACK by NMF – a return system where waste becomes resources.

We collect. We sort. We recycle.

Recycling of the future

With TAKE BACK by NMF, we have challenged the non-existing solutions for recycling microfiber. But we are not stopping here. An industrial roll is the final product in version 1.0. Our goal is that by 2025, we will recycle used microfiber for new yarns. Yarns, which can be used to produce new ones microfiber cloths and mops.

**Source: Environmental protection agency, February 2021*

1. Delivery of used microfiber cloths and mops.

We accept all brands, as long as they have The Nordic Swan Ecolabel.

2. Collection by NMF Transport.

Collection takes place within 5 working days. The transport is electrically powered.

3. The microfiber products are sent for recycling at a Danish textile mill.

Here they are broken down into fibres.

4. Production of industry roll.

Reduced CO₂ emissions as well as water and energy consumption are documented with a certificate.





Processing

From cloth and mop

When we have collected a large amount of worn out microfiber cloths and mops, we send them to breakdown at a textile mill. Here they are broken down mechanically without the use of chemicals.

The collected microfiber products must be processed before they are ready to be given new life in a recycled product. Therefore, they are broken down very neat and tiny so that we can produce industrial rolls of the many tons of worn out microfiber.



REmade in Denmark

To industry roll

From waste to resources. From worn out microfiber to industrial roll.

The broken down fibers are pressed and tied together – and the result is recycled microfiber on a roll.

We are therefore replacing the traditional industrial paper roll with an industrial roll of recycled microfiber.

The industrial roll can be used for wiping, absorption and covering.



It is leading to measurable positive effects on the environment.

In fact, there is **61.5% less** CO₂ emissions when compared to a paper roll produced from virgin paper.

From waste to resources

TAKE BACK by NMF increases recycling and minimizes use-and-throw-away.

When we recycle, we use the waste instead just throw it out.

REmade in Denmark

+1000 tons of microfiber

Give Nordic Swan Ecolabelled products new life

Our goal is to give +1000 tons of The Nordic Swan Ecolabelled microfiber new life. The return system simply works best when used.

Let's help each other use the system and make a difference to the environment.

We have an ambition to return 100%. It is up to you whether you want to join the journey, where together we transform waste into resources. One cloth and one mop at a time.



**Do you want to make
a difference?**

Contact us or your NMF dealer to get started
with TAKE BACK by NMF.

+45 65 98 20 40
takeback@nordiskmicrofiber.dk



TAKE BACK

by NMF



We collect. We sort. We recycle.

The project has been prepared with the support of the EU through SMV:GRØN

Nordisk Microfiber is approved as a collection company in The waste register.



Nordisk Microfiber Danmark ApS
Agerhatten 27A
DK-5220 Odense SØ

+45 6598 2040
info@nordiskmicrofiber.dk
www.nordiskmicrofiber.dk



Do you want to make a difference?

Return system for microfiber

Send all your Nordic Swan Ecolabelled cloths and mops back.

NMF's return system is quite simple to use. You put away and we do the rest. It's easy. It's the future!

We collect.
We sort.
We recycle.



Scan this with your phone and get started.

