IAOM SEA 2025
Take care of your sieve

SEFAR

Manila | October 2025

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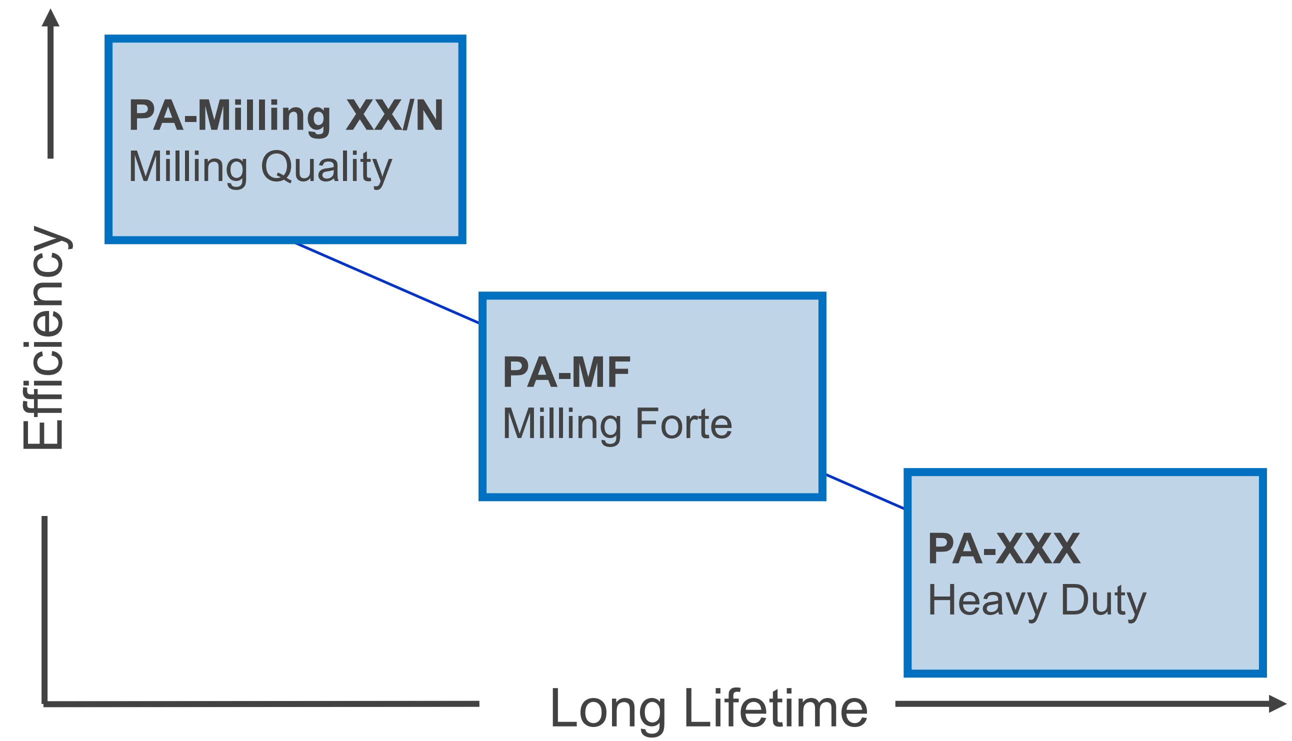
AGENDA

- Fabric Range for
  - Plansifter
  - Fabrics – Wear and tear
  - Correct usage of fabrics
  - Purifier
  - Turbo/Vibrosifter
  - Dust bags
  - Accessories
- Stretching Systems
  - Preparation and gluing video
- Example of a wrong installation of connector sleeves
- Q & A

Fabric Range
for Plansifter – Fine sieves <300µ



The hardness of the wheat and the texture of the endosperm requires that you choose the correct sieve fabrics.

The two decisive factors are high sieving efficiency or long lifetime.

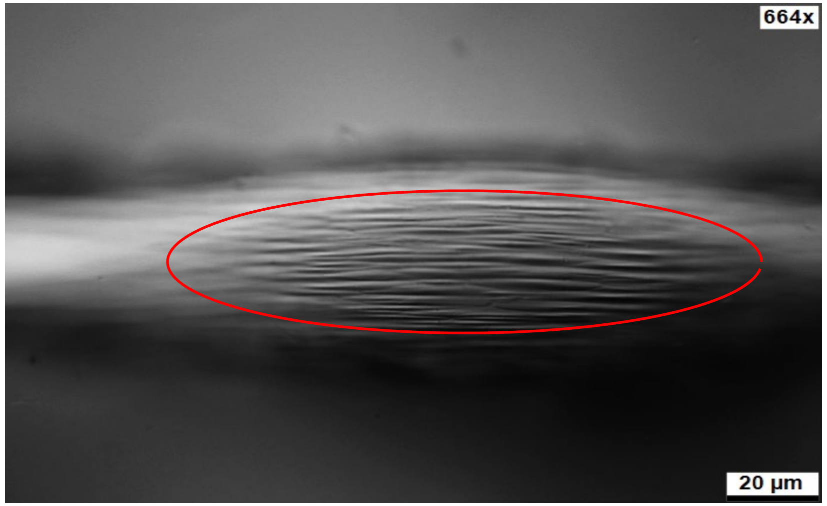
Fabrics - Wear and tear

Why do the flour sieves have to be changed approximately once per year?

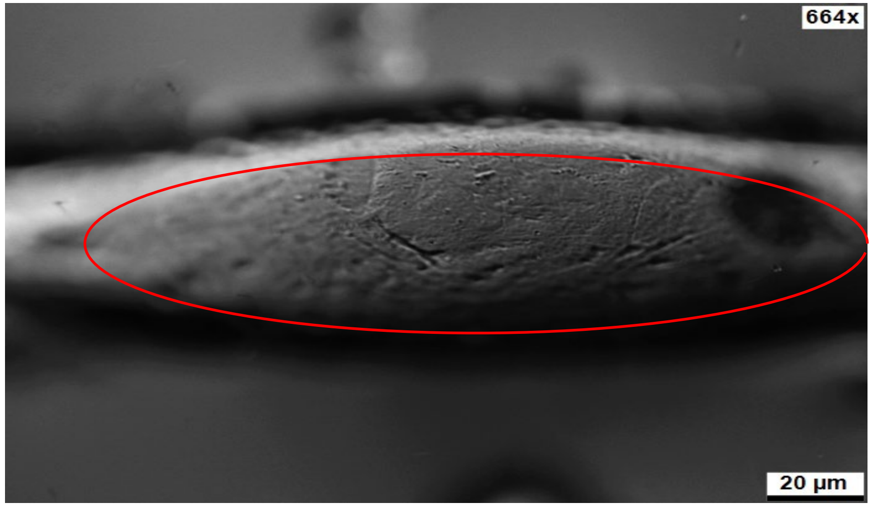
- The surface of the sieve becomes smooth.
- Increased energy consumption because the product is moving to the next passages instead of being sorted out as final product.
- The flour mill is losing yield of first quality flour.
- Losing a considerable amount of milling capacity.

Fabrics - Wear and tear

Fabric sample PA-10MF-132



Mono-filament of a new fabric
(top view)



Mono-filament of a used fabric
(top view)

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Correct Usage of Fabrics
Humidity influence on Polyamide fabrics

The majority of fabrics used in sifters are made of Polyamide (Nylon).
Polyamide has a water absorption rate of 4.4%, influenced by the relative humidity.

Why is this fact to be considered?

We can use it to achieve:
– Higher and stable fabric tension
– Compensate for changes in relative humidity

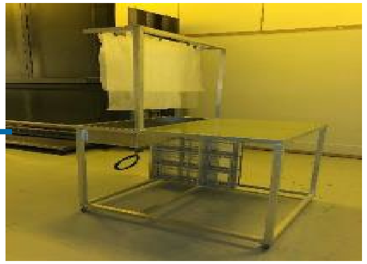
Correct Usage of Fabrics
Humidity influence on Polyamide fabrics

Humidify the mesh either by:


Storing the rolls or cut panels in a room or cupboard with high humidity (+60%).

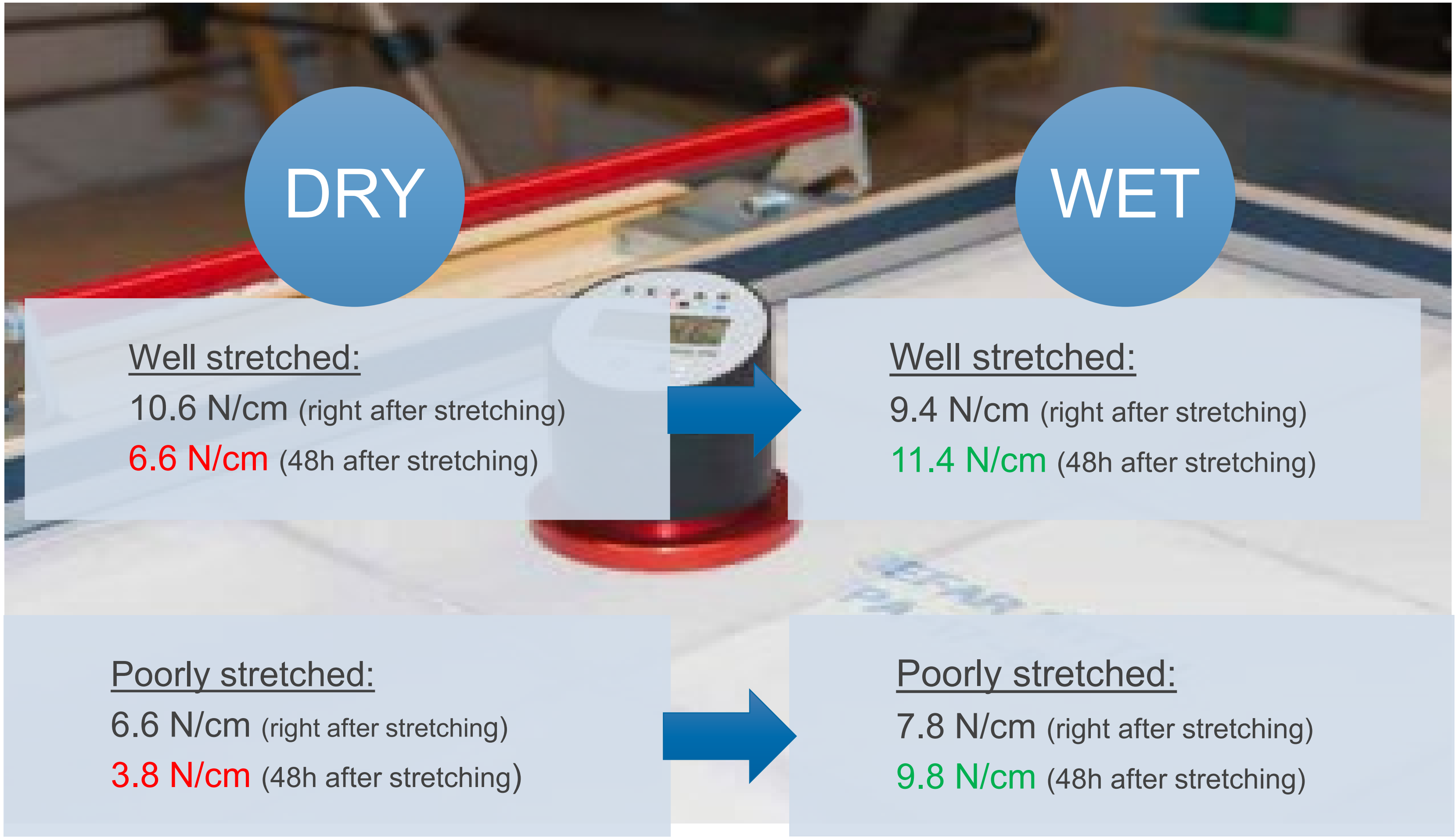

Leave the cut panel in bucket or cold water for ½ hour.


Take it out and leave it hanging for ½ - 1h.




Then continue to stretch the mesh with the Pneumapp Stretcher.

Correct Usage of Fabrics
Humidity influence on Polyamide fabrics



DRY

WET

Well stretched:
10.6 N/cm (right after stretching)
6.6 N/cm (48h after stretching)

Well stretched:
9.4 N/cm (right after stretching)
11.4 N/cm (48h after stretching)

Poorly stretched:
6.6 N/cm (right after stretching)
3.8 N/cm (48h after stretching)

Poorly stretched:
7.8 N/cm (right after stretching)
9.8 N/cm (48h after stretching)

Fabric Range
for Plansifter – Fine sieves <300µ

	Comparison of the fine sieve fabric families		
	Milling Quality	Milling Forte	Heavy Duty
Specification	**PA-Milling**	**PA-MF**	**PA-XXX**
Mesh opening	132	132	132
Thread diameter	60-2x50-60	70	80
Open Area	43%	41%	39%

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SEFAR Fabric Range
for Purifier

SEFAR NYTAL® PET-GG

PET Grit gauze

- hardly affected by humidity
- resistant to temperature changes
- maintains constant tension
- Due to the rough fabric surface, the product remains longer on the sieve
- → Better separation

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SEFAR Fabric Range

Summary

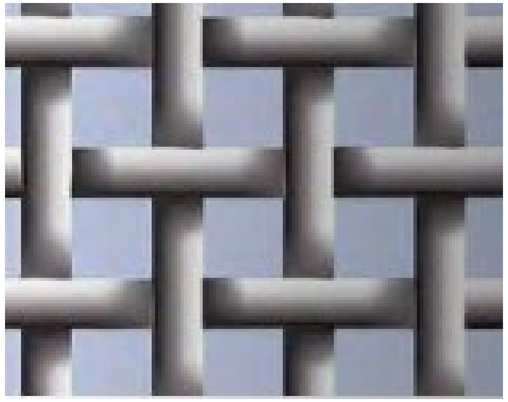
	Sifting fabric properties	
	PA-Polyamide	**PET-Polyester**
Abrasion resistance	very good	approx. 2/3 of PA
Water absorption	4.4%	0.4%
Benefit of the fabric	long lifetime	less influence in humidity changes
Hydrolysis restistance	good	limited
Fabric surface structure	standard	slightly rougher
Stability to light	limited	limited
Fabric range	5 different fabric ranges for the sifter (PA-GG, PA-Milling, PA-MF, PA-XXX, PA-HD)	one complete PET-GG range for the purifier

SEFAR Fabric Range
for Centrifugal Sifter

SEFAR NYTAL® PA-HD (Heavy Duty)

Polyamide Flour Sieves

- for harder types of wheat and Durum
- for their long lifetime
- good abrasion resistant qualities



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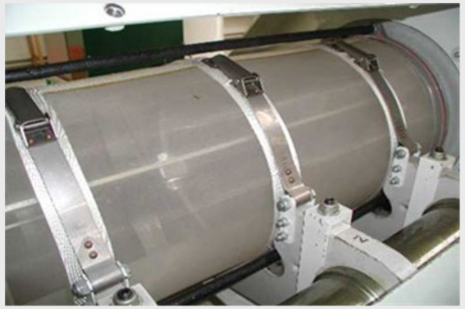
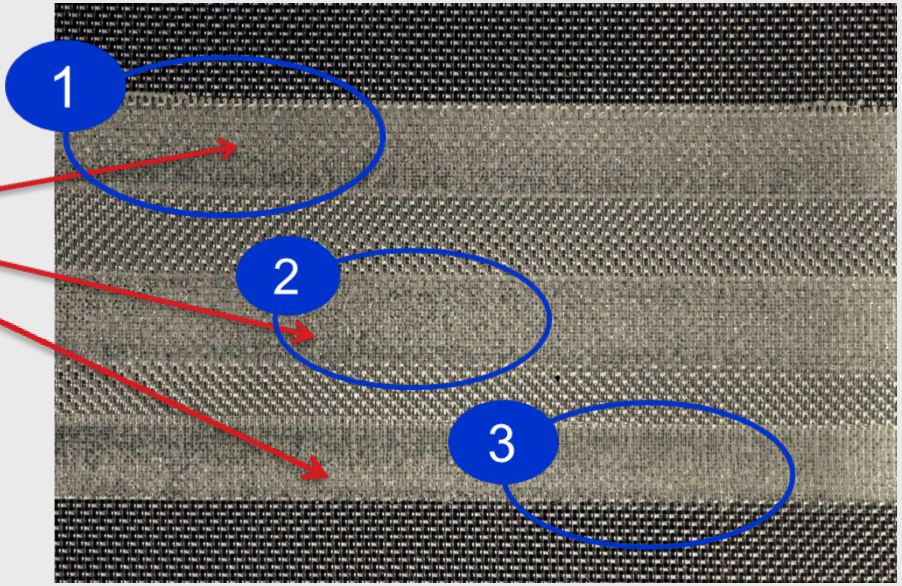
Vibro- and Turbosifter Principle / Differences / Description



Vibrosifter with mechanically vibration

AR-3 seam,
3 x seam



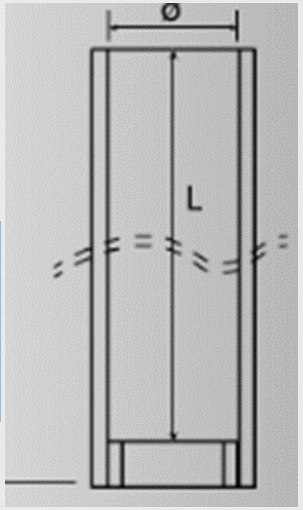
SEFAR dust filter standard solutions

SIDE loader

Standard Filterbags in stock

ø Inside diameter [mm]	L Inside length [mm]
120	810
120	1295
120	1895
120	2435
120	3035

Open top
Rounded bottoom for side loaders



Customer specific dimensions
On request

NFI = Not antistatic / no ATEX Certificate

NFIA = Antistatic with ATEX Certifikate

Oel- and Waterrepellent Needlefelt

PET Needlefelt 350gr/m2 for low pressure filters

PET Needlefelt 500gr/m2 for high pressure filters

FoodTec NFIA version available

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SEFAR dust filter standard solutions

TOP loader

Open top + Collar 15 x 10mm
Rounded bottom for top loader

Standard Filterbags in stock

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120	865
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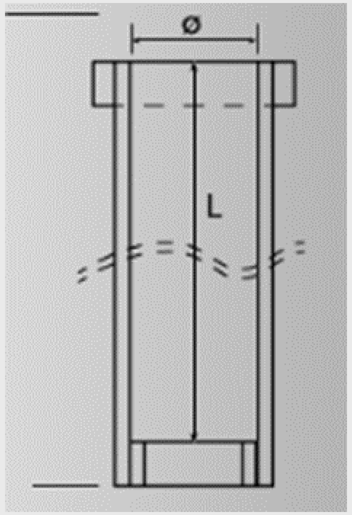
120	1860
120	2400
120	3000



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What is important for preparation and glueing?

https://www.youtube.com/watch?v=k-nt1nHjHwM&t=181s

Sieve Tensioncheck devices:

- *Sieve tension can be checked with the help of devices like Sefar Tensocheck and other tension measuring devices available in the market.*
- *Tension meters can be either analog or digital, though, we recommend the use of digital devices for high accurate and precision readings.*
- *These devices must be able to measure both synthetic fabrics & SS wire mesh with high precision.*
- *These must be able to measure tensions as high as 28 - 30 N/cm with a precision of (+/-) 0.2 units.*
- *Tension meters should be recalibrated at least once a year to ensure the accuracy of the readings are retained while measurement.*

SEFAR Quicktal Glue

FDA and EU SEFAR COMPLIANT

Sefar Quicktal is a single-component cyanoacrylate adhesives

Glue drying time: (without Accelerator) Appox. 30 minutes (depends on relative humidity

Glue drying time: with Accelerator Appox. 2 minutes

SEFAR Quicktal Glue

FDA and EU SEFAR COMPLIANT

- 5600: Quicktal adhesives, low viscosity
  50/100/500 gr bottles (Wood and Alu <850my)
- 5602: Quicktal D-Bonder
  500 ml bottle
- 5603: Quicktal 77, high viscosity
  50 gr bottle (Wood and Alu >850my)
- 5604: Quicktal Metal
  100/500 gr bottle (Stainless steel / metal)
- 5602: Quicktal accelerator spray
  200 ml Spray

SEFAR Quicktal Glue

FDA and EU SEFAR COMPLIANT

- Please read the enclosed safety instructions
- Each bottle is marked with the expiry date (month/year)
- Please use existing stock first
- Store in cool, dry place, protected from sun and moisture; **preferably in a Refrigerator**

SEFAR dust filter standard solutions

SIDE loader

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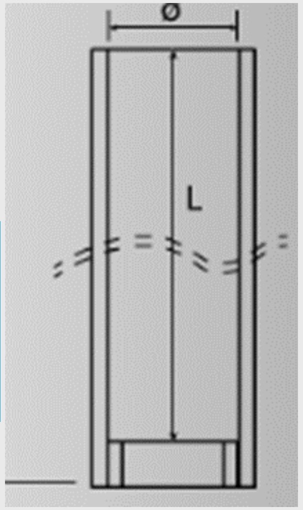

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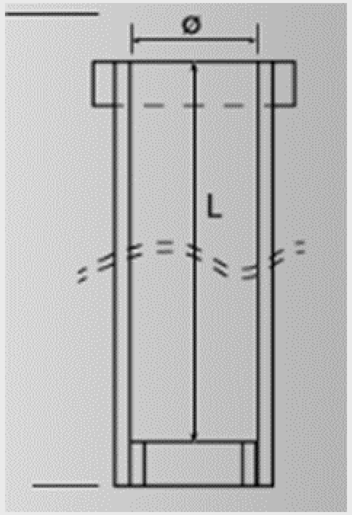

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SEFAR NYTAL Blue Cleaner

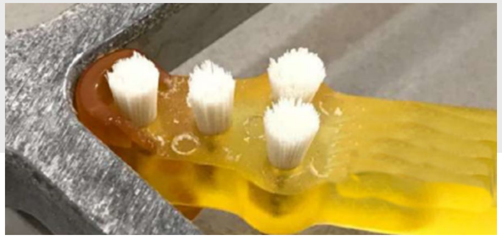
FDA and EU
SEFAR
COMPLIANT

SEFAR NYTAL® Blue Cleaner

Product features:
- Buttons and brushes 21 knobs or brushes for effective cleaning
- Raised protectors on the tips that protect the buttons or brushes from extreme wear and tear
- Knob-style version for coarse meshes (<300 microns) including metal mesh
- Brush-like design with PA brushes for fine cloths (> 300 microns).
- Bristles with a slightly larger diameter for a longer service life and more intensive cleaning

Product features: shape
- Unique star shape combines maximum durability with highly efficient cleaning properties for most frames without corrugated mesh
- Additional tongue ensures thorough cleaning - also under the crossbars
- The central hub on the underside enables the cleaner to be tilted and rotated unhindered
- The floor pan is cleaned at the same time thanks to the effective combination of rotating hub, tongue and two additional corner elements.
- ATTENTION: Required distance between sieve and pan: 28.5 - 30.0 mm (1.12-1.18 ")

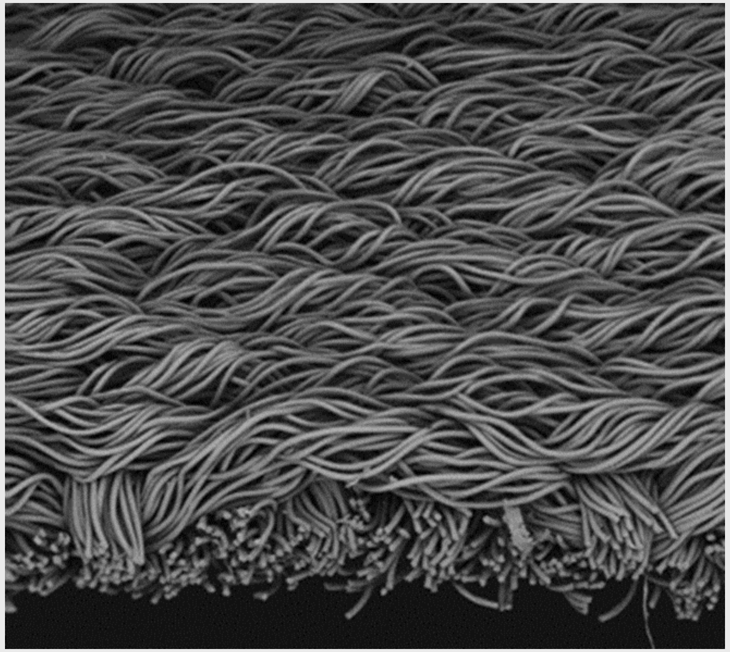
Cleaner Competion



SEFAR NYTAL Blue Cleaner

Connector sleeves / SEFAR fabric selection

SEFAR TETEX® MULTI



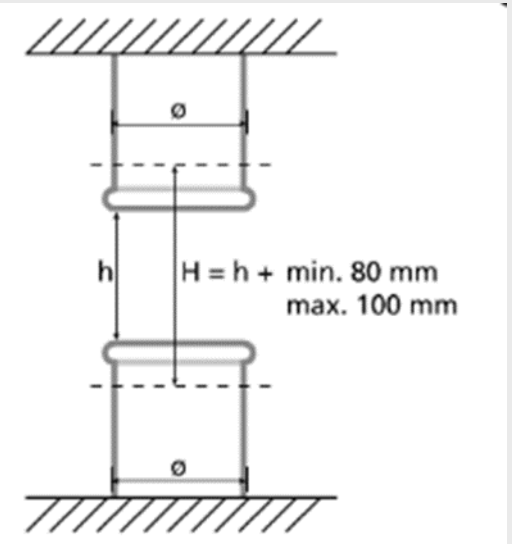
03-550-210 W Standard
03-430-205 W
07-15-380 W

- Good air permeability
- Long lifetime
- Resistant against chemical, thermal and physical forces
- Excellent hygienic properties (FDA conform)
- Antistatic properties (on demand)

Connector sleeves / Finding of the Correct dimensions

Standard Connector sleeve in stock / other dimensions on request available

Diameter mm	Length mm	Number of rings
300	310	2
240	280	2
210	310	2
150	290	2
120	290	2
120	150	1
120	260	2
80	100	0
120	110	0
80	150	0



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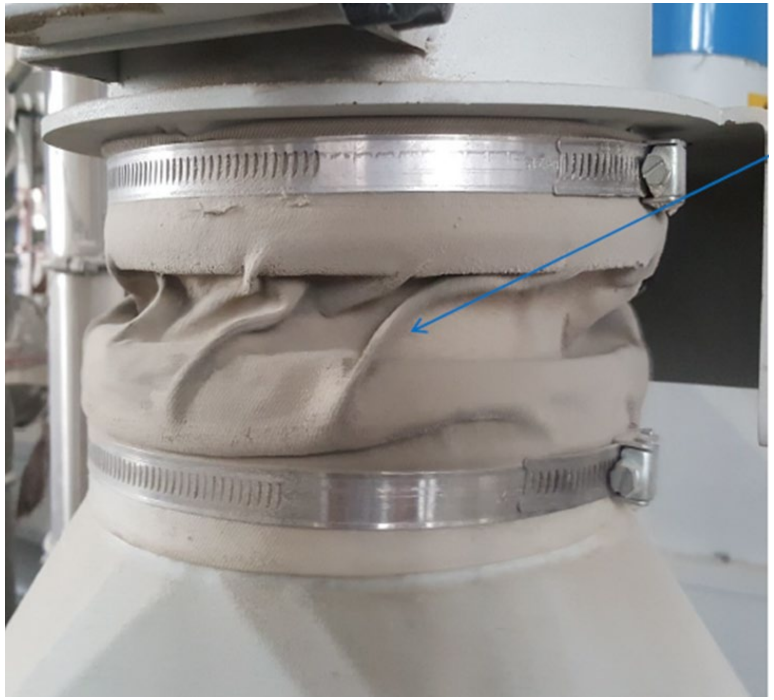
Examples of a wrong installation of the connector sleeves

A deformation can lead to damage and reduced service life

Examples of a wrong installation of the connector sleeves

Product accumulations have
a negative effect on hygiene.



Wrinkles are created using wrong size connectors.

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Thank you
for your kind attention!

For further information please consult the Sefar Milling Brochure and visit us online.

www.sefar.com