

S E F A R

SEFAR Solutions for Flourmills

**IAOM Muscat Oman, 2007,
boltingcloth, humidity FDA**

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Wheat - Semolina - Pasta



2. SEFAR - Solutions for Flourmills

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2.1 Sifter



Approx. 50 - 60m² of screen fabrics are needed for a 100 t / 24 h Mill

The sieves are renewed approx. once a year

Fabric program - coarse sieves

| | Mesh opening | Screens Fabrics |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|
| <div style="background-color: red; color: black; padding: 20px; border: 2px solid black; font-size: 2em; font-weight: bold;">Coarse</div> | >900 μm | Wire mesh |
| | >900 - 300 μm | Polyamide Gritgauze |
| <div style="background-color: orange; color: black; padding: 20px; border: 2px solid black; font-size: 2em; font-weight: bold;">Fine</div> | 300 - 90 μm | Polyamide Flour sieves |



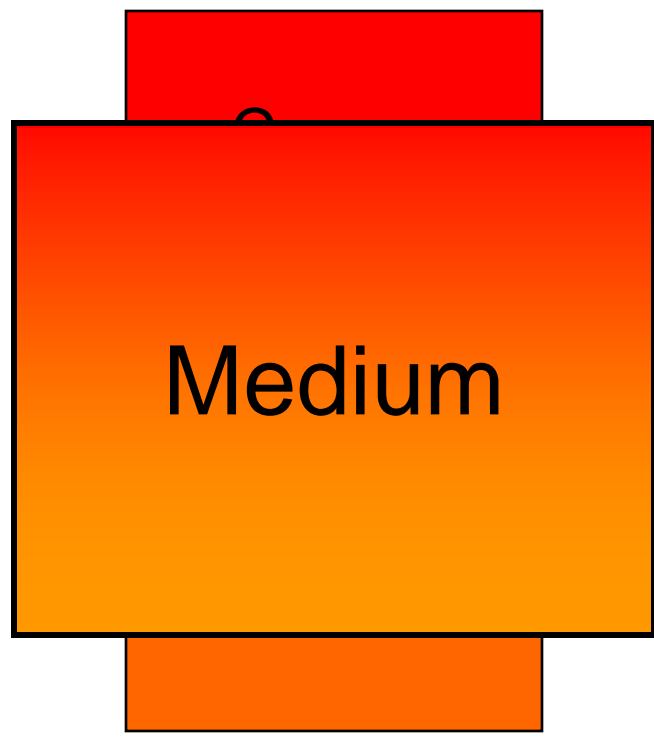
Fabric program - coarse sieves

Wire mesh



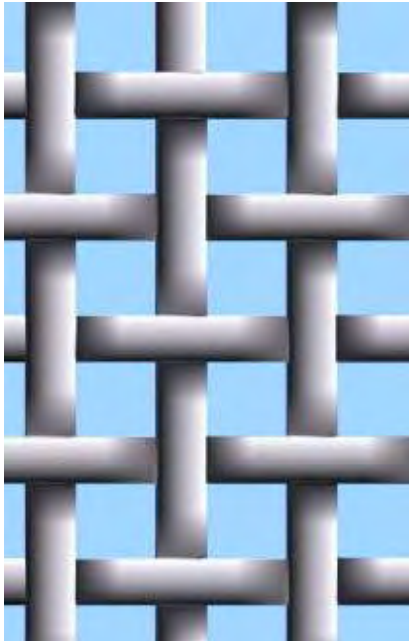
Stainless steel wire mesh is used for coarse or scalping sieves

Fabric program - medium sieves

| | Mesh opening | Screens Fabrics |
|--------------------------------------------------------------------------------------------------|--------------------------|---------------------------|
|  <p>Medium</p> | >900 μm | Wire Mesh |
| | >900 - 300 μm | Polyamide Gritgauze |
| | 300 - 90 μm | Polyamide Flour sieves |

Fabric program - medium sieves

PA-GG



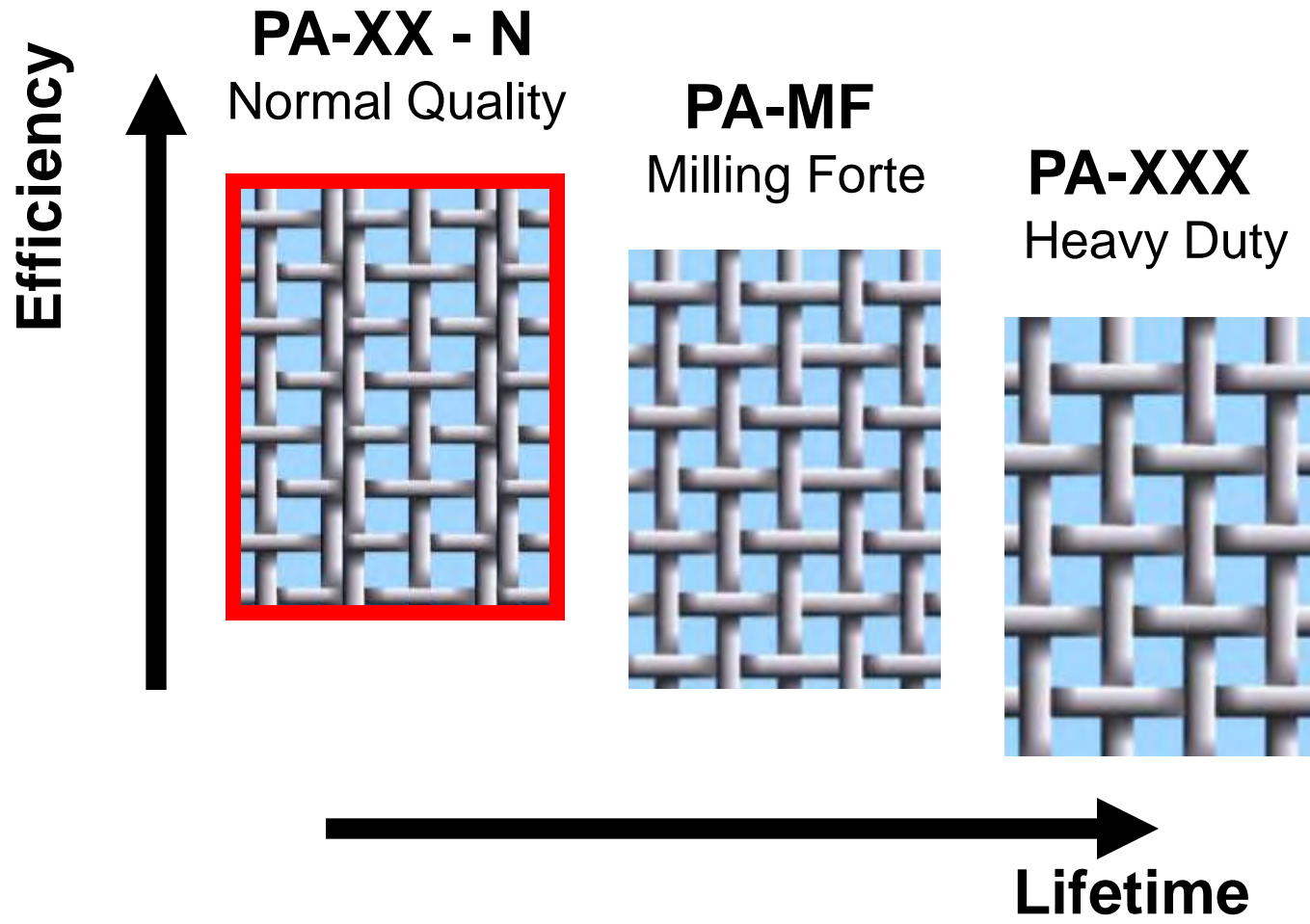
Polyamide Gritgauze is used for the coarse sieves

- good abrasive qualities
- long lifetime
- high efficiency

Fabric program - flour sieves

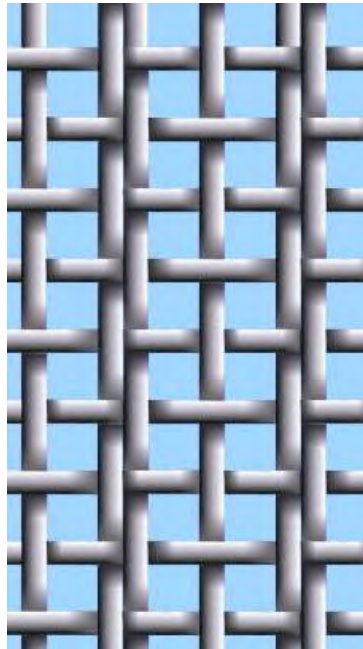
| | Mesh opening | Screens Fabrics |
|-----------------------------------------|--------------------------|---------------------------|
| <p>Coarse</p> <p>Medium</p> <p>Fine</p> | >900 μm | Wire Mesh |
| | >900 - 300 μm | Polyamide Gritgauze |
| | 300 - 90 μm | Polyamide Flour sieves |

SEFAR® NYTAL for flour sieves



SEFAR® NYTAL for flour sieves

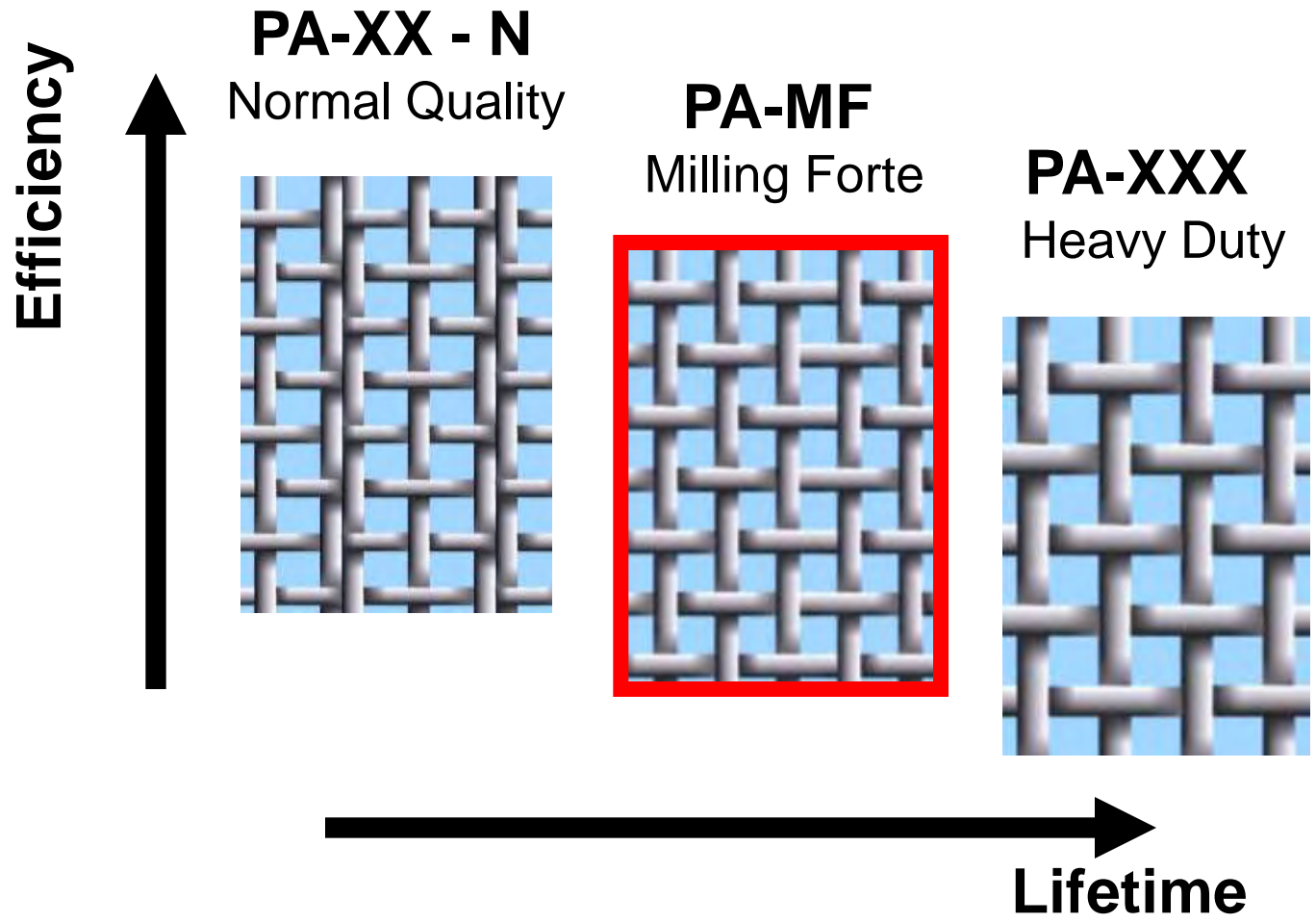
PA-XX - N



PA-XX is used for soft wheat, biscuit and rye flour

- rough surface
- high percentage open area
- best sieving efficiency

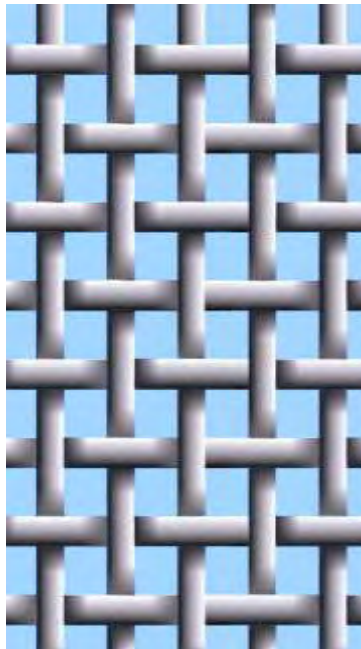
SEFAR® NYTAL for flour sieves



SEFAR® NYTAL for flour sieves

PA- MF

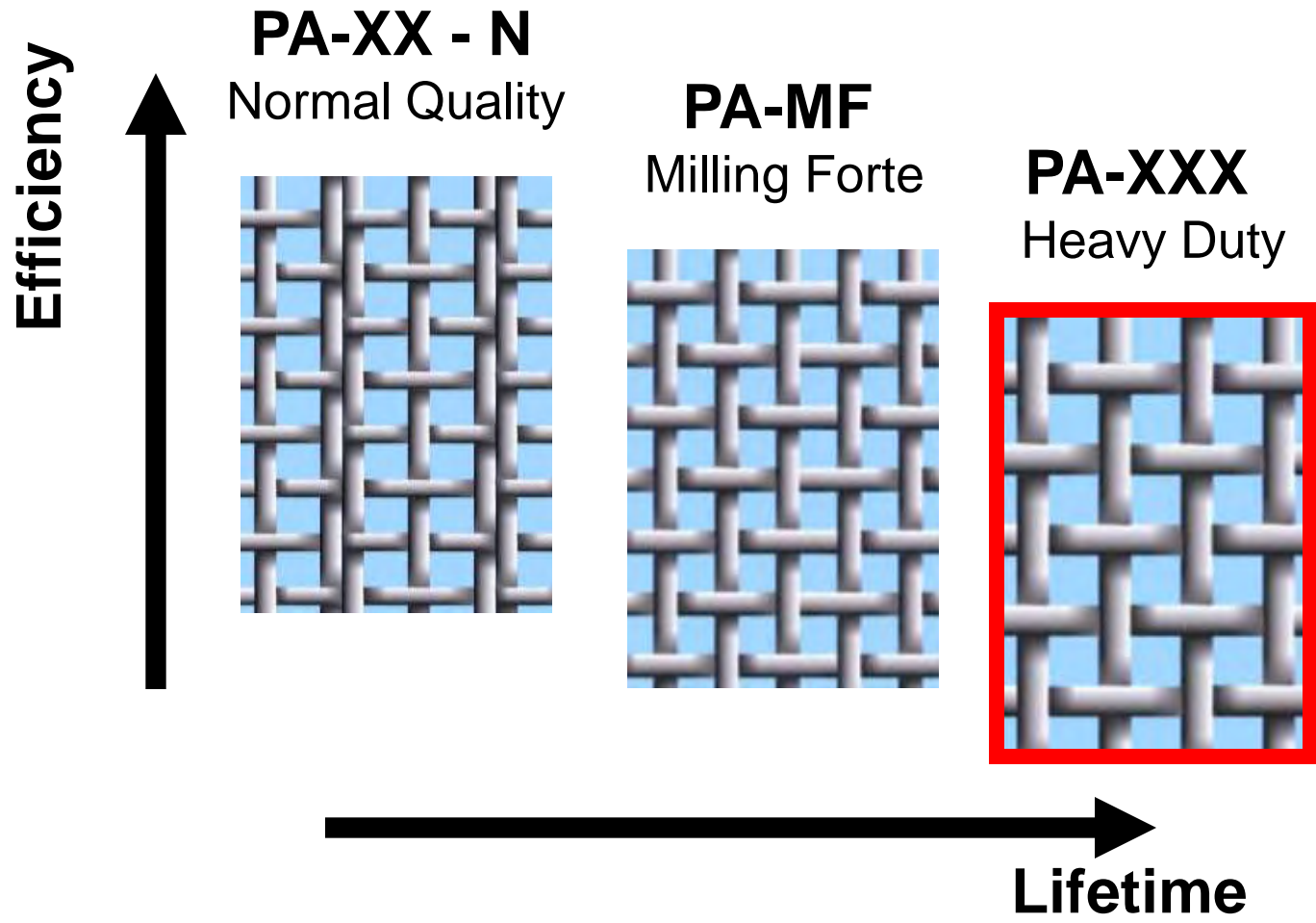
Milling Forte



PA-MF is used on metal sifter frames, where it is replacing the PA-XX/N quality

- best possible durability combined with high sieving efficiency

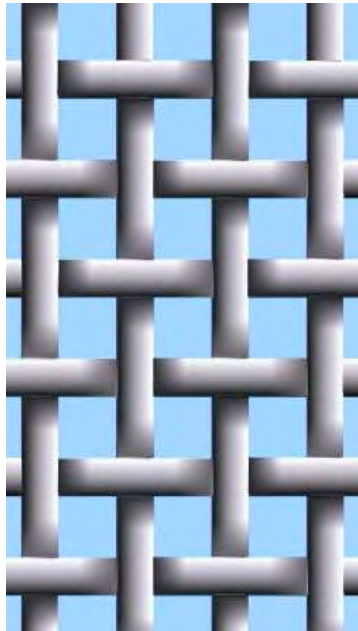
SEFAR® NYTAL for flour sieves



SEFAR® NYTAL for flour sieves

PA-XXX

Heavy Duty

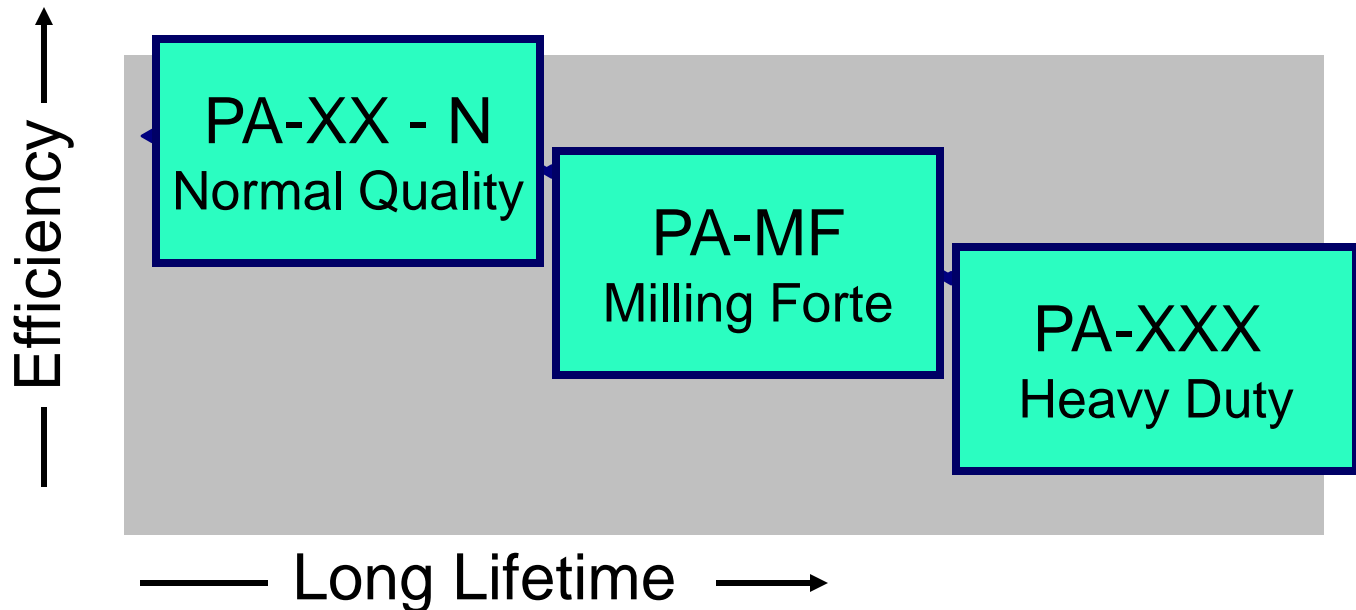


PA-XXX fabrics are used for harder types of wheat and Durum

- long lifetime
- good abrasion resistance

Fabric program - flour sieves

The hardness of the wheat and the constitution of the endosperm requires to choose the correct sieve fabrics. A decision has to be made between high sifting efficiency and long lifetime.



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2.1.1 Humidity influence on Polyamide fabrics

**Polyamide absorbs up to 4.4%
humidity**

We can use this capacity, to achieve

more tension

or

compensation if the humidity changes

2.1.1 Humidity influence on Polyamide fabrics

Humidify the mesh by either:

Store the rolls or cut panels in a room or cupboard
with high (95%) humidity

Leave the cut panel in a bucket of cold water
for 1/2 hour

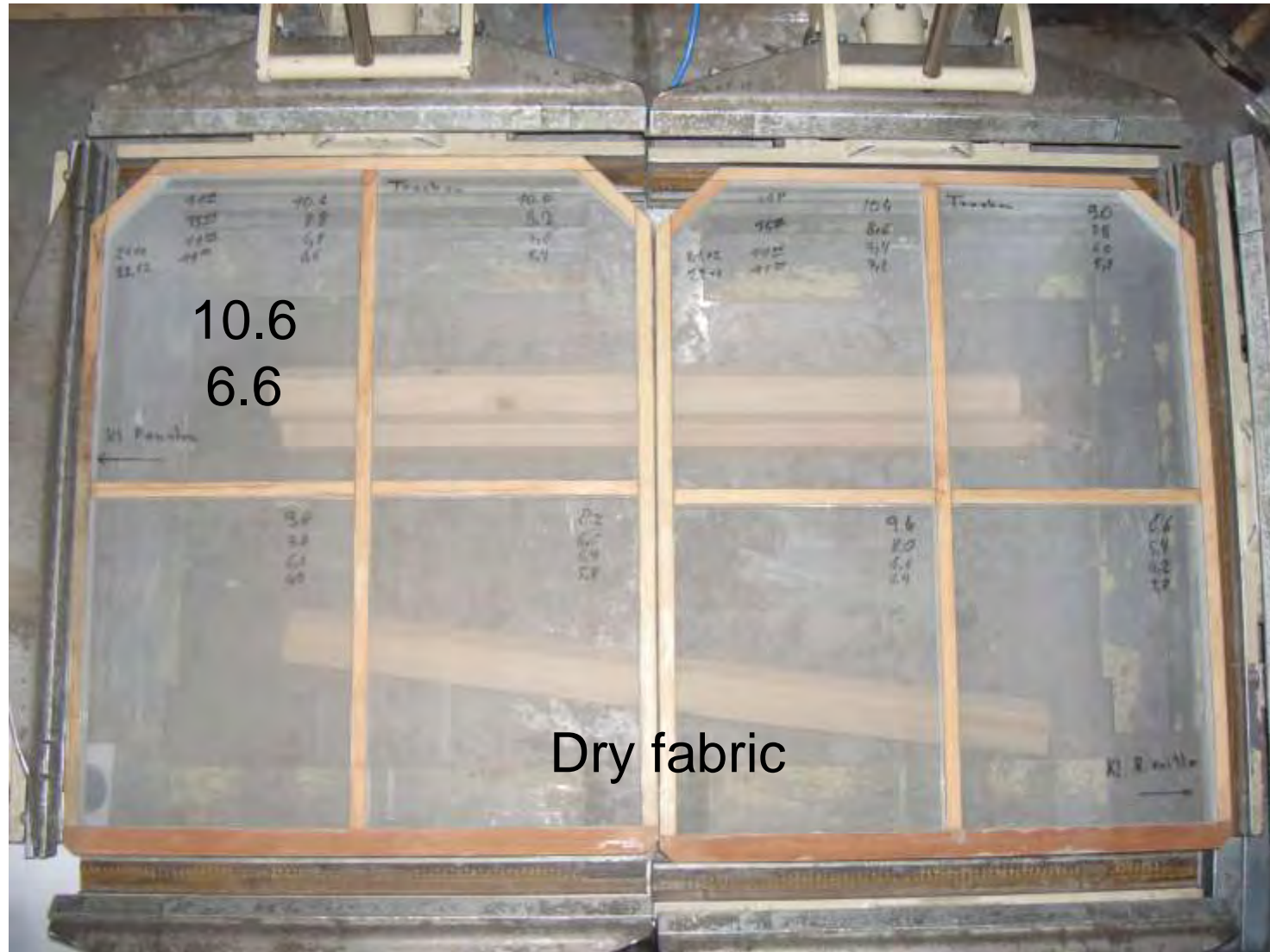
Take it out and leave it hanging for
1/2 - 1 hour

2.1.1 Humidity influence on Polyamide fabrics

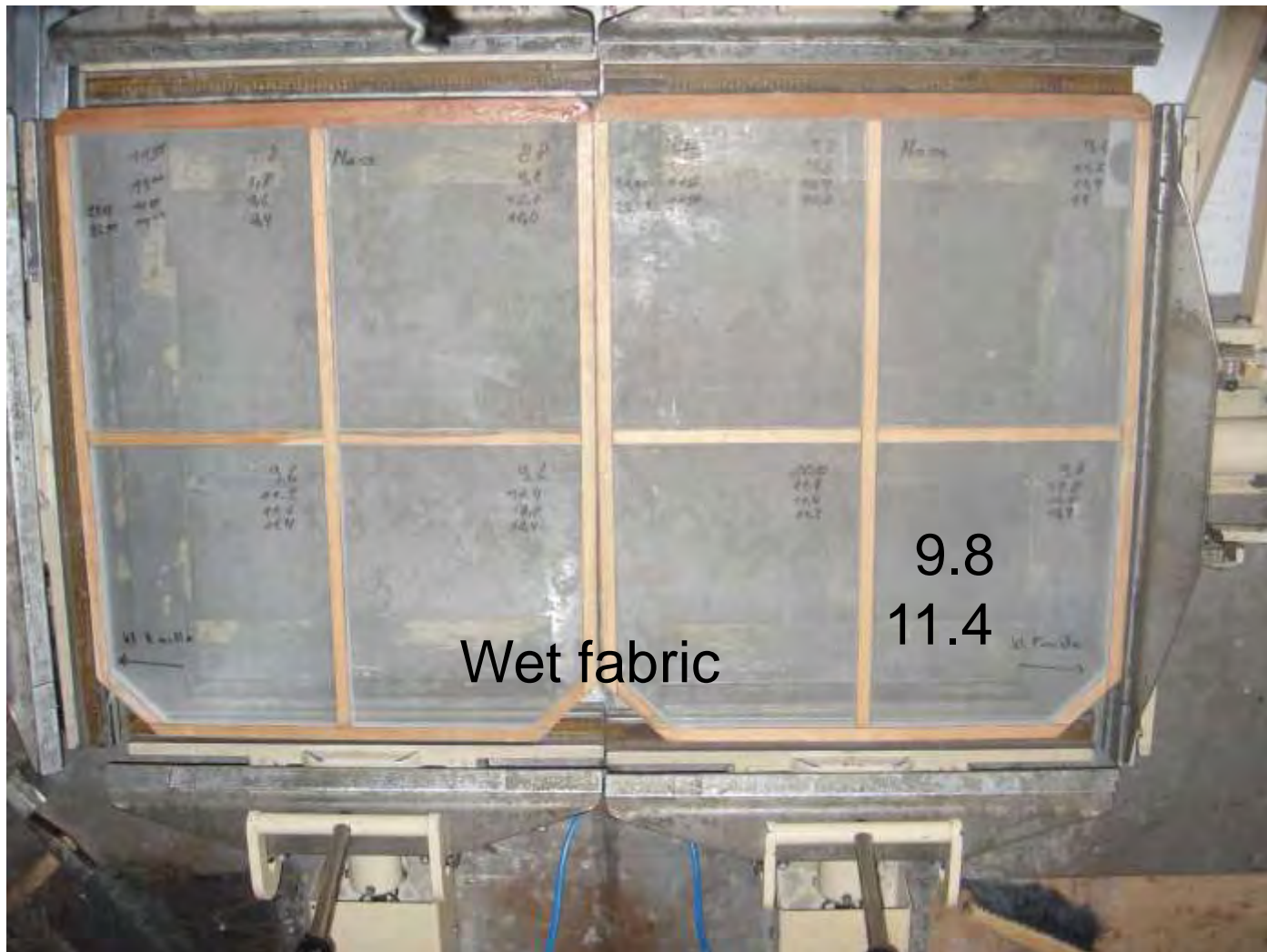
Then continue to stretch the mesh
with the stretcher PN2



2.1.1 Humidity influence on Polyamide fabrics



2.1.1 Humidity influence on Polyamide fabrics



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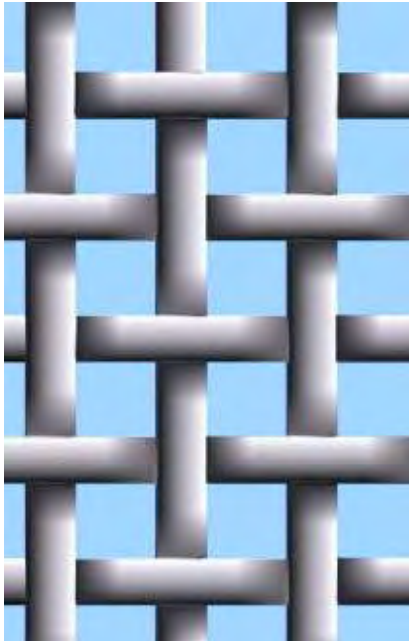
2.2 Purifier



Fabric program - purifier screens

PET-GG

Grit Gauze



The rough fabric surface makes the product remain longer on the sieve. This leads to better separation.

- hardly affected by humidity
- resistant to temperature changes
- keeps constant tension.

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2.3. Centrifugal Sifter



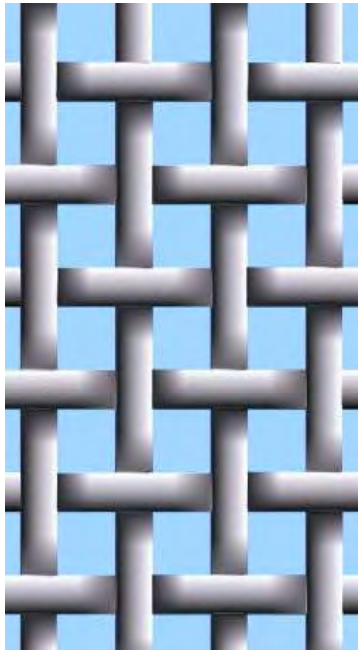
Vibro / Turbo sifters are used to sift the products from the filters and bran finishers

They are highly efficient, but they need frequent controls



Fabric program

PA-HD (ASTM) Heavy Duty



PA-HD (ASTM)
fabrics assure good
sieving efficiency
and a long lifetime

3. Fabric stretching system

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Fabric stretching equipment

- New **Pneumapp-2** clamp
- Digital **Tensocheck**
- **FDA certified Quicktal** glue



Due to changes in hygienic regulations in the food industry

- In addition to the existing wooden-topped table we introduce a new PE-HWST top. (polyethylene 1000 high density)
- The table includes 4 frame supports for metal frames



Quicktal

**FDA-Certificate
for our Quicktal
adhesive**



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Declaration of Conformity of FDA – Compatibility For SEFAR Quicktal Cyanoacrylate Adhesives

Herewith, Sefer AG confirms the safety assessment of the products of the adhesives Quicktal 5600 and Quicktal 5603 based on the US Food and Drug Administration (FDA) regulations specified in the Code of Federal Regulations (CFR part 21).

After a careful examination of the compounds of interest, it was concluded that the Quicktal 5600 and Quicktal 5603 products should fall under "Part 176-Intake Food Additives, Adhesives, and components of coating; Subpart C – Substances for use as components of Coatings", Table 1 of the section specifies testing that is required, based on the type of food that is in contact with the product.

When the Sefer AG products are in contact with dry solid food, "Table 1" specifies that for these products "no and test is required". Therefore, the safety assessment of the Quicktal 5600 and Quicktal 5603 can be based on this statement.

Ruckwies, January 2006
Sefer AG


Jan Singer
Sales Engineer Process & Food


Jörg Jäger
Quality Manager

Quality System ISO 9001



4. SEFAR program

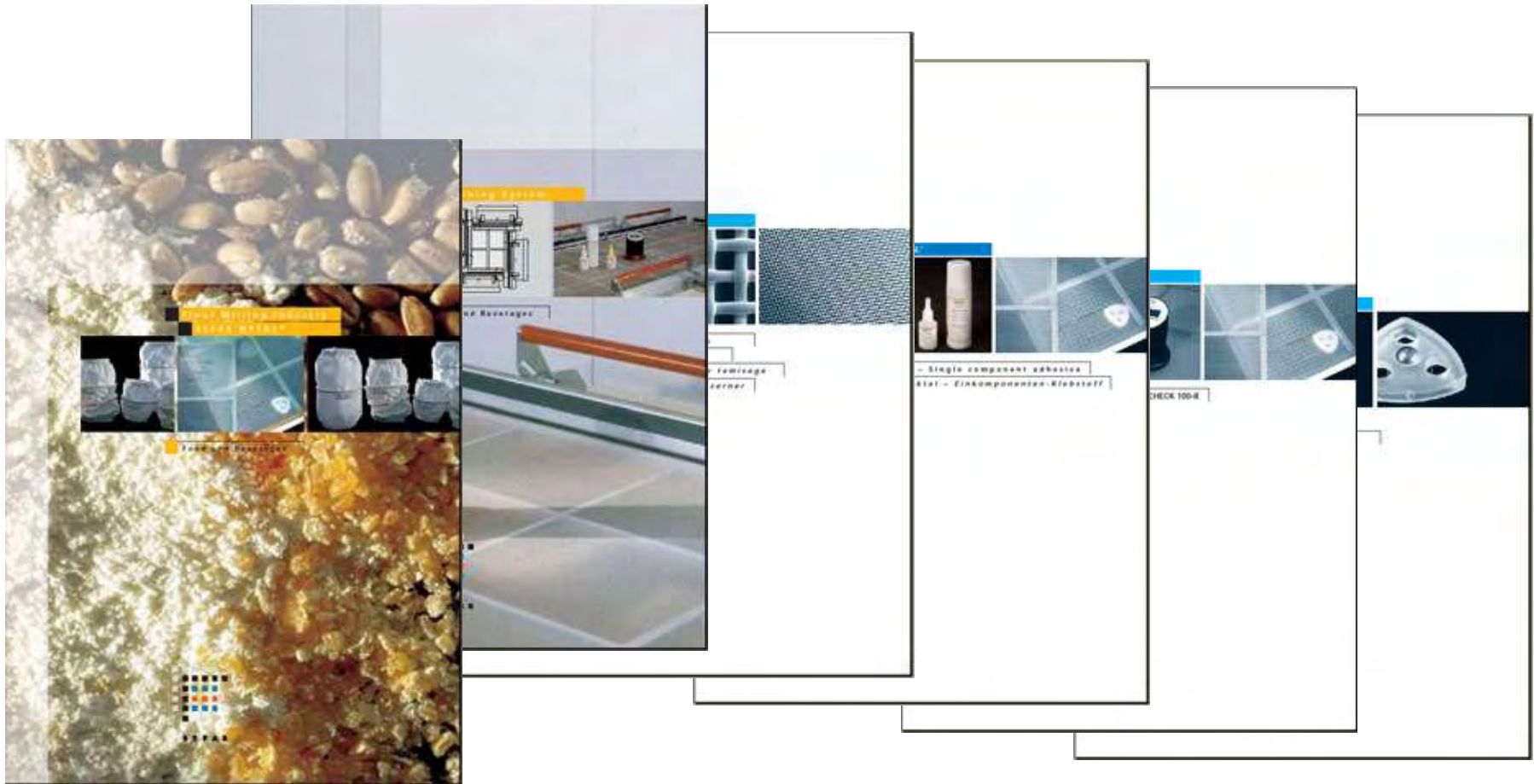
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5. The ideal combination ...


... is the
**SEFAR
Solution**



4. SEFAR NYTAL[®]. programm



Flour milling industry



**Thank you
for your attention**