



Creating Solutions in Filtration

- Dust Removal Bag Filters -

Vincent LORENTZ
Sales Manager -FILTRATION

- Snap shot presentation
- Spunlace Filter Media – Technology & Process
- Spunlace Filter Media – Products features
- Spunlace Filter Media – End user's benefits
- Focus on Bag Filters
- Main references

Snap shot presentation of Company & Products

One company

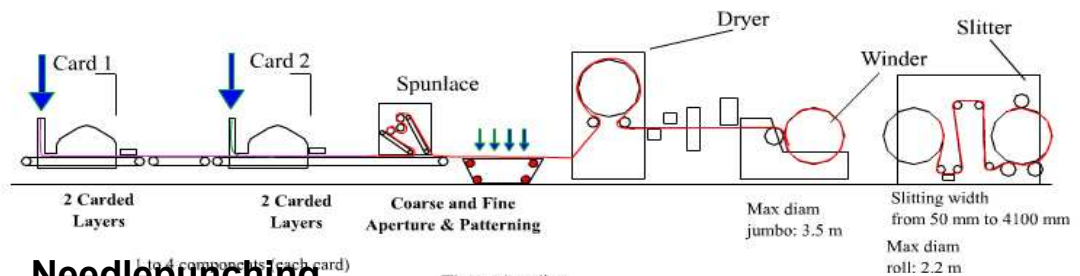
NORAFIN GmbH

One trade mark

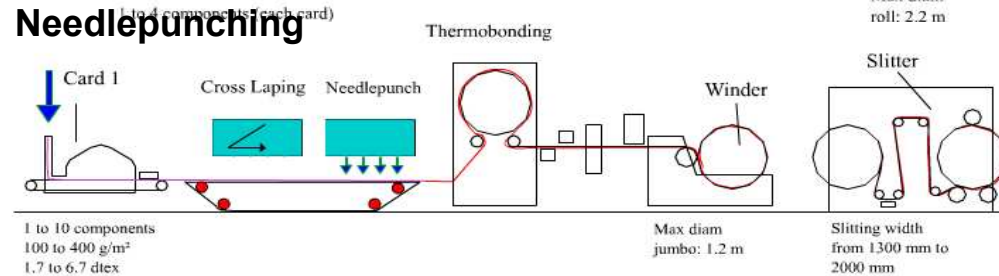
Norafin 

Two technologies

Spunlacing



Needlepunching



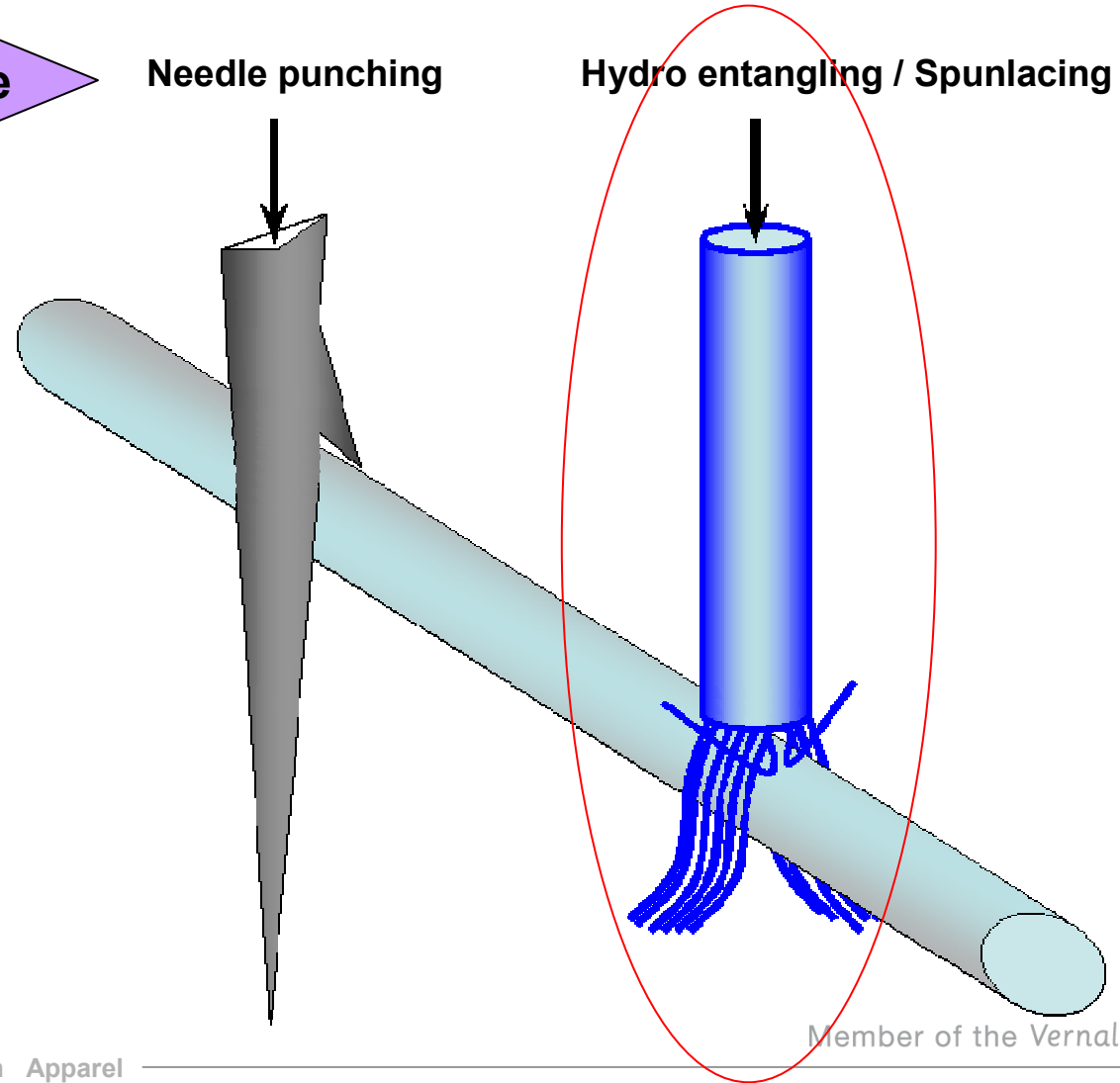
Wide range of filtermedia type

PA - PET - PAN - PPS - m ARAMIDE - PIA - PI - PTFE

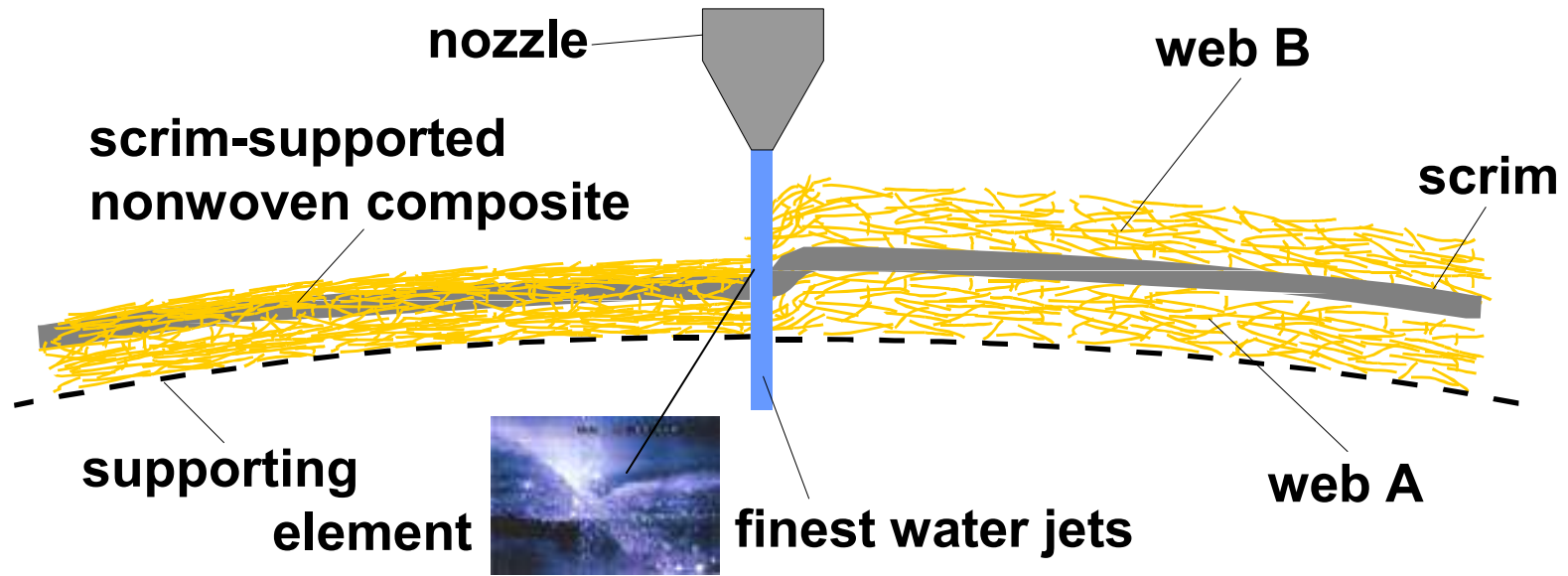
Member of the Vernal  Group

Spunlace Filter Media

Technology principle



Layer bonding by hydroentangling

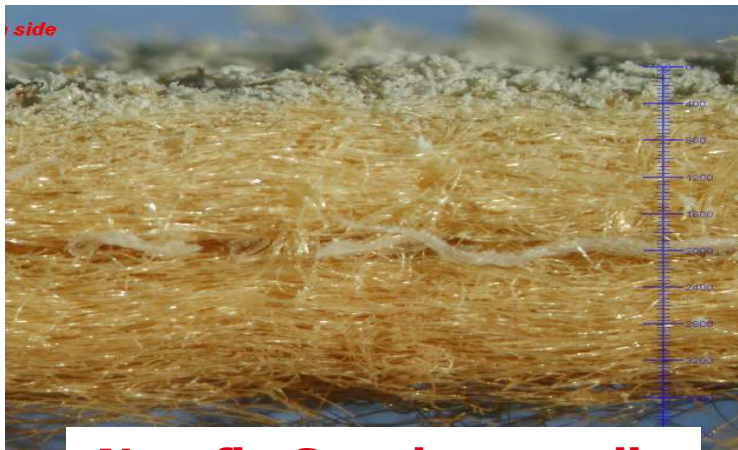


manufacturing process flow

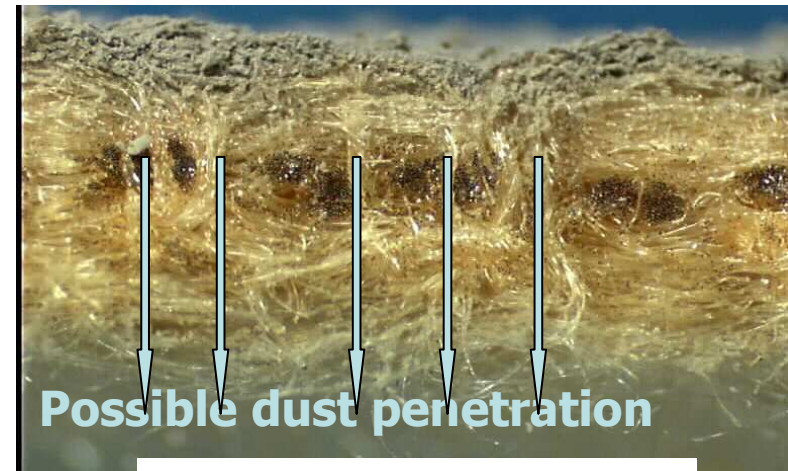
Spunlace Filter Media

Product's feature

- ◆ Natural 3D hydro entangling leading to:
 - ◆ Better surface and cross section homogeneity
 - ◆ Tighter pores, better and controlled pore size distribution
 - ◆ Less open areas and no “going through” channels
 - ◆ No scrim damaging



Norafin Spunlace media

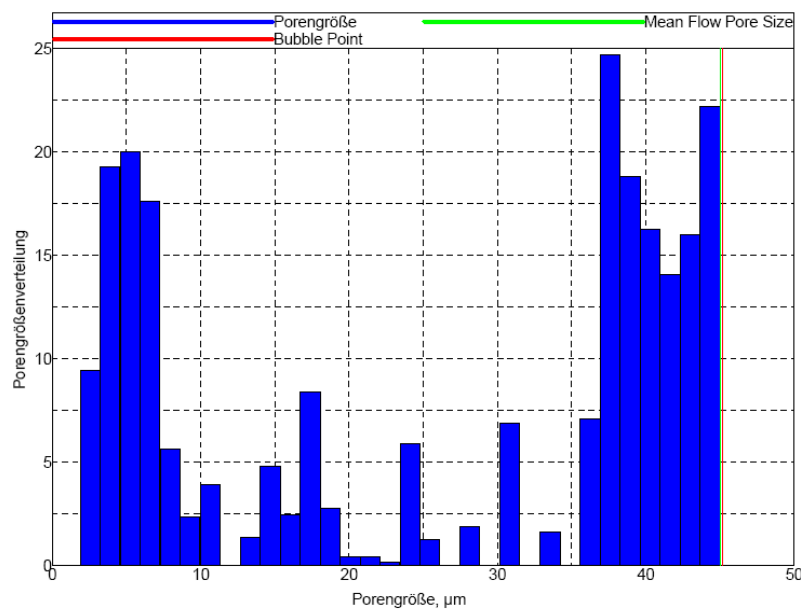


Needlepunched felt

Spunlace Filter Media

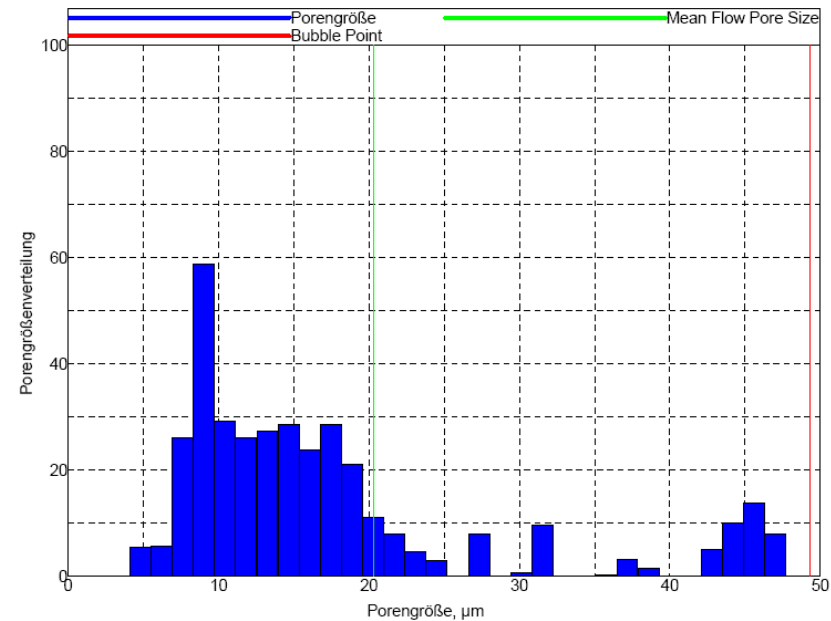
Product's feature

- ◆ Tighter pores, better and controlled pore size distribution
- ◆ Less open areas and no “going through” channels



P84/P84 550GSM Needle Felt

Average Pore Size: 37µm



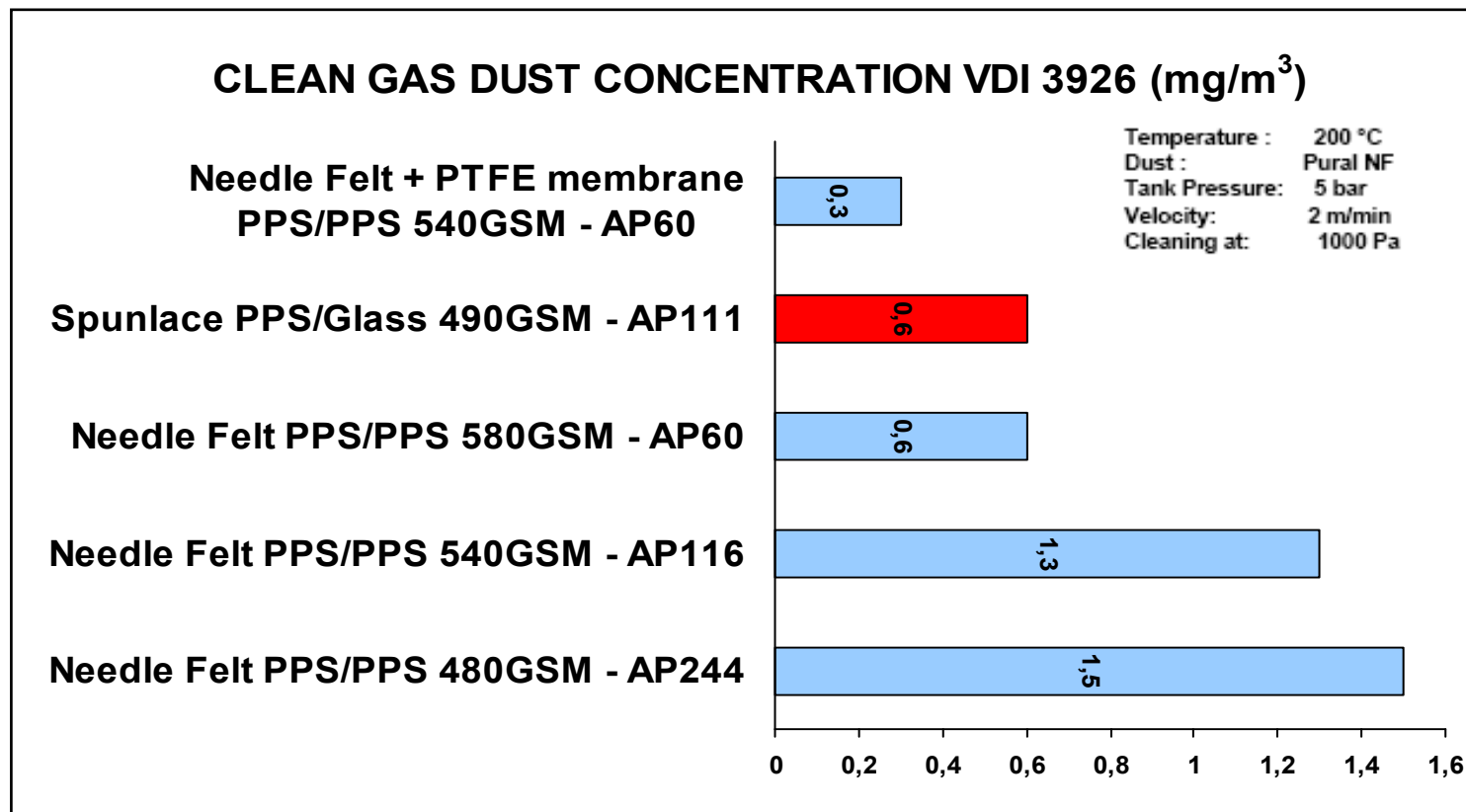
NORAFIN P84/GF 400GSM Spunlace

Average Pore Size: 14µm

Spunlace Filter Media

End user's benefits

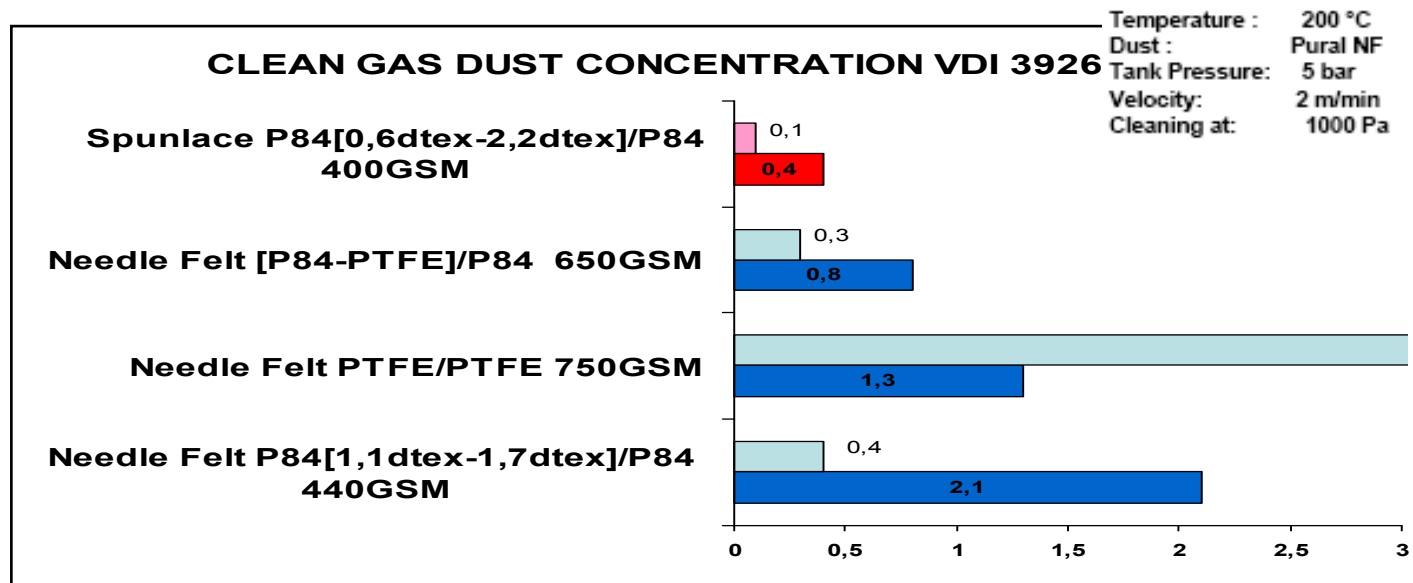
◆ Better filtration efficiency





Spunlace Filter Media

End user's benefits

◆ Better filtration efficiency



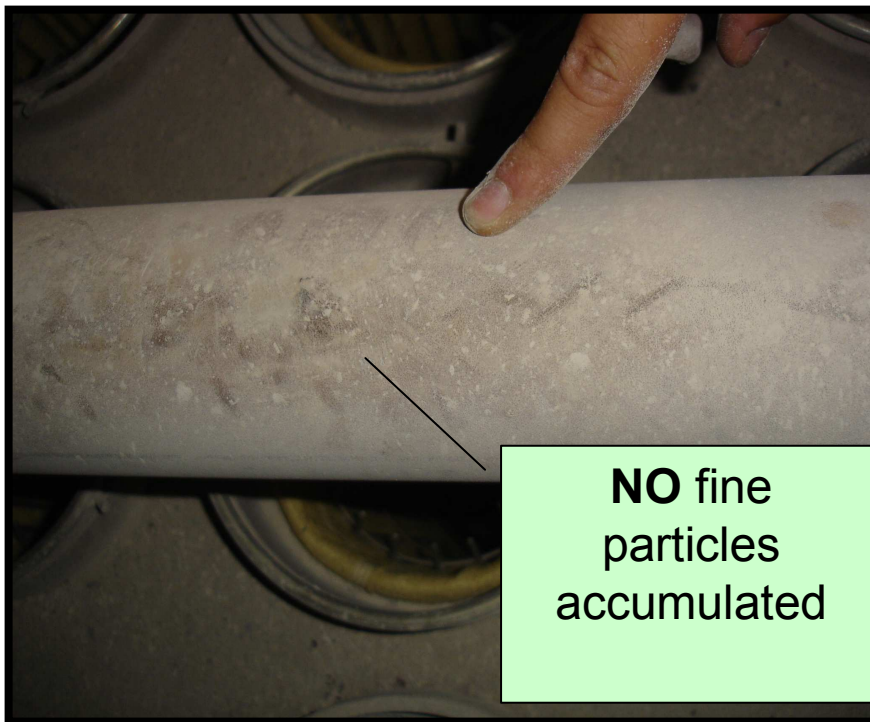
 after 30 cycles  after aging + 2 hours measurement

Spunlace Filter Media

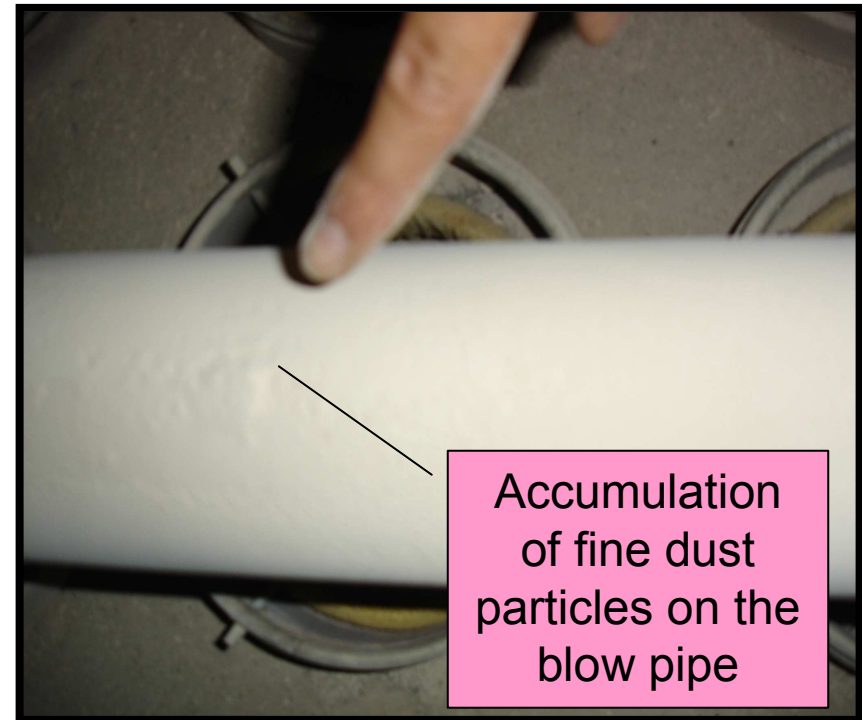
End user's benefits

◆ **Better filtration efficiency**

Spunlace nonwoven



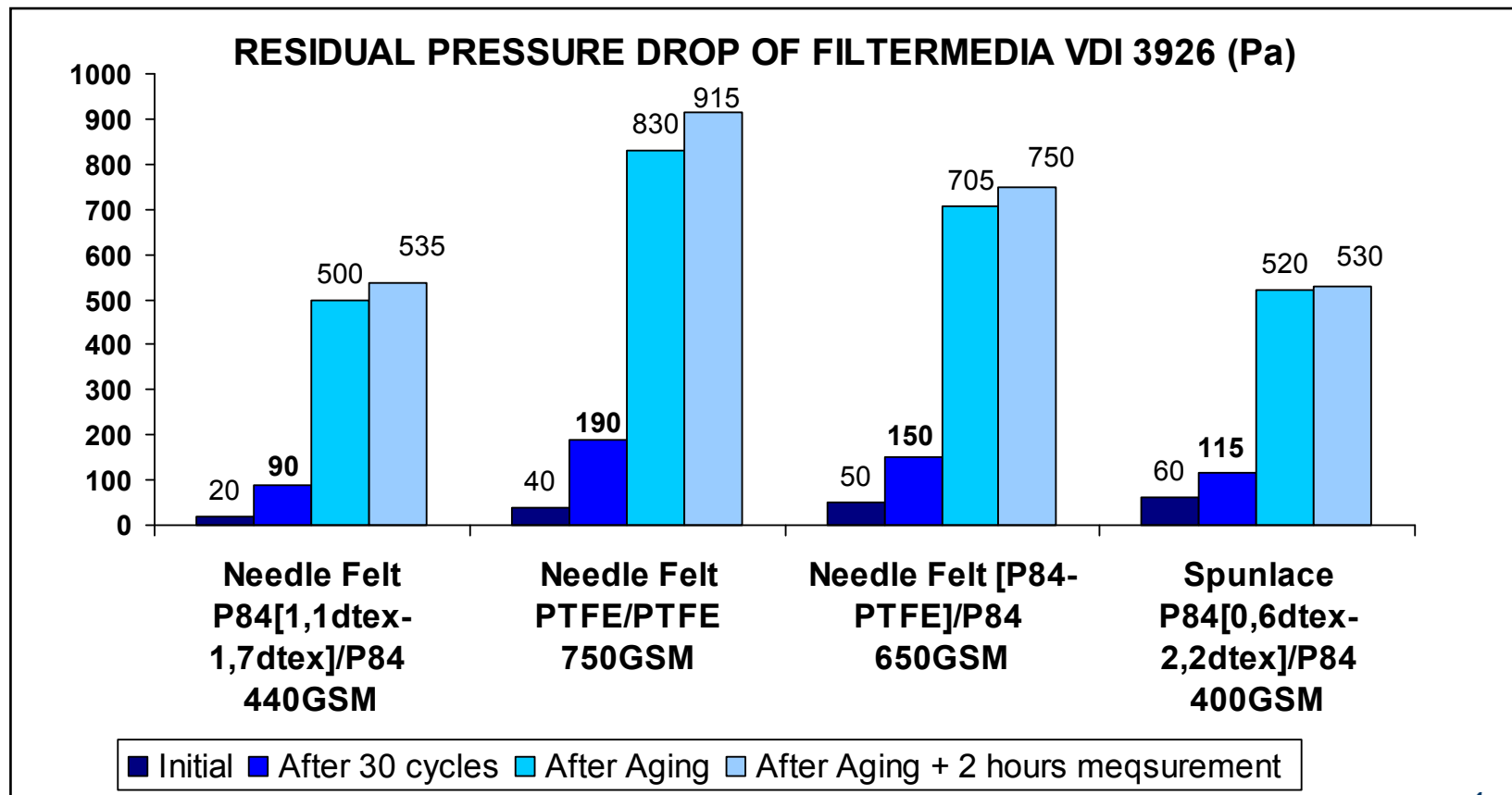
Needlepunched felt



Spunlace Filter Media

End user's benefits

◆ Better pressure drop



Spunlace Filter Media

End user's benefits

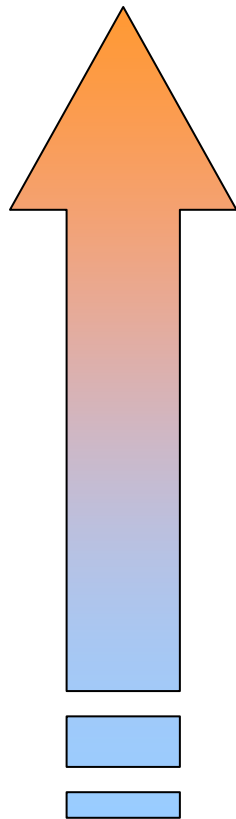
◆ **Better mechanical strength,
No damaging of the SCRIM**

Item	Standard	STANDARD NEEDLE FELT P84/P84 500	NORAFIN SPUNLACE P84/P84 400	NORAFIN SPUNLACE P84/GF 400
Weight [g/m ²]	DIN EN 29073-1/ ISO 9073-1	500	396	400
Thickness [mm]	DIN EN 29073-2/ ISO 9073-2	2,6	2,33	2,07
Air permeability [l/dm ² /min] @200 Pa	DIN EN ISO 9237	200	155	169
Tensile strength [N/5cm]	MD	800	991	915
	DIN EN 29073-3/ ISO 9073-3 CD	800	765	810
Elongation at break [%]	MD	20	30	20
	DIN EN 29073-3/ ISO 9073-3 CD	30	29	9

Spunlace Filter Media

End user's benefits

◆ Available in a wide range of fibre material



PTFE

High

TEMPERATURE

P84

**PIA
m-ARAMIDE
PPS**

Homo PAN

Standard

TEMPERATURE

PET

Spunlace Filter Media

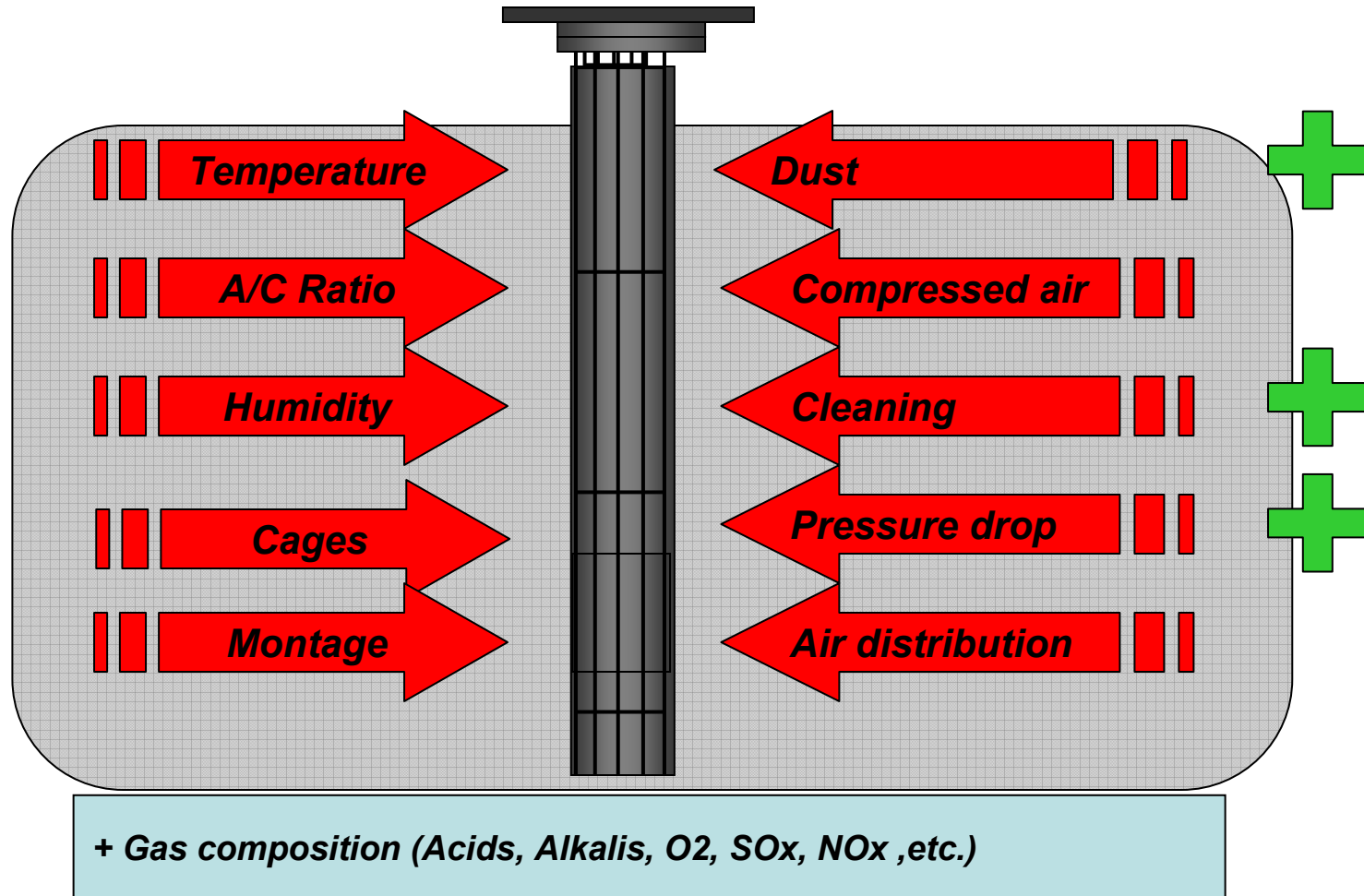
ADVANTAGES of NORAFIN Spunlace filter media

- ◆ **Better filtration efficiency**
Smaller and better distributed pores size
Better homogeneity - No channels
- ◆ **Better mechanical strength**
No scrim damaging
- ◆ **Wider Constructions/Efficiency possibilities**
Lower “active” weight
Selfsupported filtermedia
- ◆ **Wide range of filtermedia’s possibilities**
Every fibre material available
Several after treatments

End users BENEFITS

- ◆ **Lower Emissions**
Smaller particles captured
- ◆ **Longer Life Time**
Better mechanical strength
Less dust penetration
- ◆ **Savings on energy costs**
Reduction in pulse cycles required to maintain pressure drop
- ◆ **Savings on material costs**
without sacrificing operating efficiency
- ◆ **A solution to every of your need**

Influences on a Filter Bag: **Positive Impact of NORAFIN filter bag**





Creating Solutions in Filtration

Your contact person:

Vincent LORENTZ

Sales Manager FILTRATION

vincent.lorentz@norafin.com

Mobile: +33 688 00 12 17

www.norafin.com