

# Memo

Datum 13-05-04  
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 CC  
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 Betreft Surface treatment AERO qualities

For obtaining a good water-and oil-repellency on woven AERO qualities Fiber Protector suggested a surface treatment.

Hereby we report the obtained results on the qualities AERO 100% wol: KLM (sample 1); AERO 100% PA: Horizon Air (sample 2); NIVO 1000 (sample 3).

## 1. Testresults

In our lab we controlled the soiling, water- and oilrepellency. These repellence was also checked after spray-extraction of the samples.

- soiling:

	original	After treatment
<b>1: Fiber Protector KLM</b>	3.5	3.75
<b>2: Fiber Protector Horizon Air</b>	3.0	4.0
<b>3: Fiber Protector NIVO 1000</b>	2.75	3.25

- water- and oilrepellency

	KLM	Horizon Air	NIVO 1000
original	W 3 / O 0	W 0 / O 0	W 1 / O 0
After treatment	W 6 / O 4	W 5 / O 3	W 4 / O 4
after 1x spray-extraction	W 5 / O 2-3	W 5 / O 2	W 4 / O 2
after 2x spray-extraction	W 4-5 / O 2	W 4 / O 2	W 4 / O 2
after 3x spray-extraction	W 4 / O 1	W 4 / O 2	W 3 / O 2
after 4x spray-extraction	W 4 / O 0	W 4 / O 2	W 3 / O 2

## 2. Comments

- Water- oilrepellency
  - **100% AERO wool**  
High values after treatment with a good behaviour after spray extraxtion, after 3x spray-extraction we still noticed repellency.
  - **100% AERO PA**  
High values after treatment with a good behaviour after spray extraxtion, after 4x spray-extraction we still noticed repellency.
  - **NIVO 1000**  
High values after treatment with a good behaviour after spray extraxtion, after 4x spray-extraction we still noticed repellency.

### **NOTE:**

Discussion about this results and applied formulation and look towards the possibillity for running a industrial trial.on wednesday 19th may