

Technical data sheet

N-composite roll FFP3 Basic

PRODUCT IDENTIFICATION AND USE

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PRODUCT IDENTIFIER:	N-composite roll FFP3 Basic
PRODUCT CODE:	NCRB3
COLOUR:	white
PRODUCT USE:	nanofibrous composite media optimized for the production of PPE (respirators) classified as FFP3 according to EN149:2001+A1:2009 standard
PRODUCT DESCRIPTION:	The nanofibrous composite is a multi-layer laminate consisting of non-woven polypropylene fabrics and a nanofiber layer of PVDF (polyvinylidene fluoride) polymer produced using Nanospider™ technology. Thanks to the lamination process, the nanofiber membrane is sufficiently fixed, which on the one hand guarantees good final mechanical properties of the final product and at the same time protects the layer from damage during normal handling and use.
PRODUCT STRUCTURE:	polypropylene spunbond / polypropylene meltblown / polyvinylidene fluoride (PVDF) nanofibers / polyethylene adhesive / polypropylene spunbond
MAJOR BENEFITS:	<ul style="list-style-type: none"> • Ultra-high efficiency for particles the size of the COVID-19 virus (80-120 nm) • Optimized for FFP3 class according to EN149:2001+A1:2009 standard • The highest comfort: significantly higher breathability than required by the standard • Stability: no reduction in filtration efficiency due to spontaneous discharge • Possible to be washed and disinfected (according to recommended procedures)

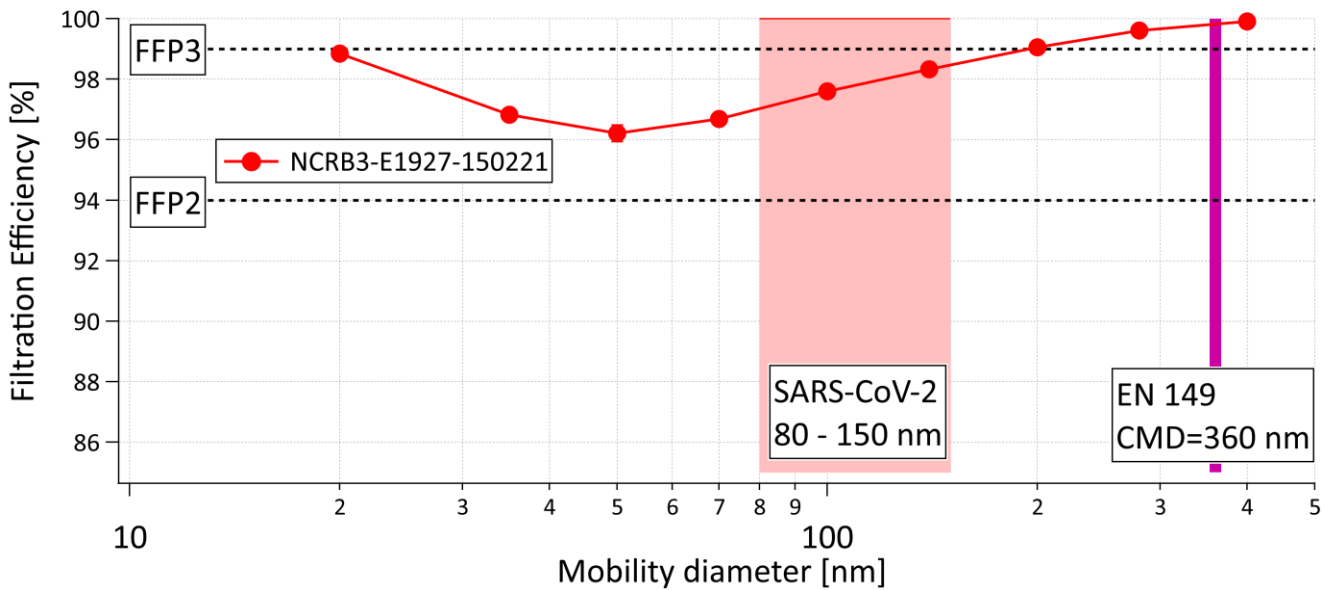
PRODUCT PROPERTIES

Parameter	Unit	Value ⁽⁵⁾	FFP3 requirement according to EN 149
Basis weight	(g/m ²)	67 ± 1	NA
Nanofiber diameter	(nm)	100 ± 20	NA
Filtration Efficiency for PS 278,8 - 399,5 nm	(%) @ 95 l/min	> 99,1 ⁽³⁾⁽⁶⁾	≥ 99,0 ⁽¹⁾
Filtration Efficiency for PS 94,7-117,6 nm ⁽⁴⁾	(%) @ 95 l/min	> 94,8 ⁽³⁾⁽⁶⁾	Not required
Initial penetration of NaCl aerosol	(%) @ 95 l/min	NA	< 1,0 ⁽¹⁾
Initial penetration of paraffin oil	(%) @ 95 l/min	< 0,5 ⁽²⁾	< 1,0 ⁽¹⁾
Initial pressure drop	(Pa) @ 30 l/min	< 52 ⁽²⁾	< 100 (Inhalation resistance) ⁽¹⁾
Initial pressure drop	(Pa) @ 95 l/min	< 194 ⁽²⁾⁽³⁾⁽⁶⁾	< 300 (Inhalation resistance) ⁽¹⁾
Initial pressure drop	(Pa) @ 160 l/min	< 198 ⁽³⁾	< 300 (Exhalation resistance) ⁽¹⁾

Delivery units and Storage conditions

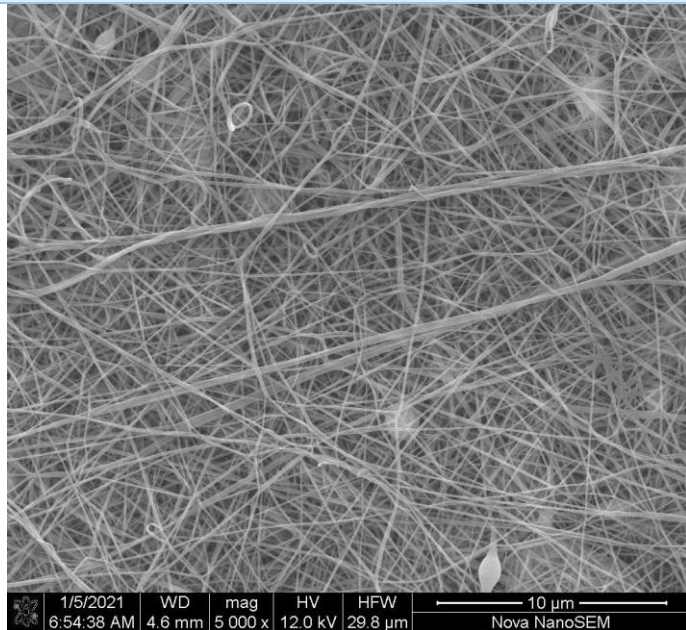
UNITS:	Roll on Europallet 2. Can be delivered either in full total roll width, or sliced on request		
SIZE:	Roll width:	Total 113 cm	Effective: 105 cm
	Roll length:	max. 730±20 lin. m (or shorter on request)	
		outer diameter of max. Roll: 61-62 cm	weight of max. Roll: approx. 55 kg
	Core diameter:	76 mm (3")	
STORAGE:	in the original packaging, storage life is 24 months, at temperatures of 10-30 ° C and humidity of max. 50%, do not store in the direct sunlight		

Size resolved filtration efficiency at face velocity 10.6 cm/s ⁽⁶⁾

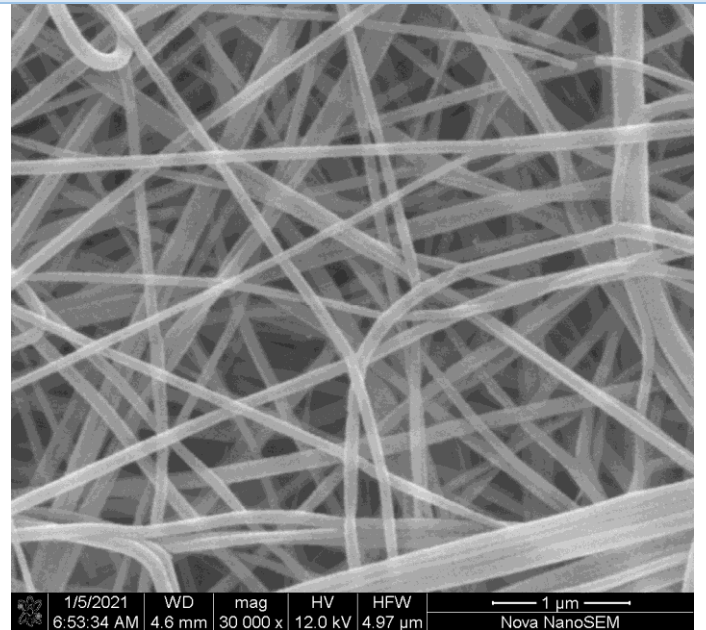


Microscope images

5.000 x



30.000 x



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(1) according to requirements of EN 149:2001+A1:2009 standard
 (2) according to test report No. 053/2021 – Accredited Testing Laboratory No. 1040 – VUBP Prague
 (3) according to test report No. 11-02/21–Testing Laboratory– VUT Brno
 (4) corresponds approx. to the particle size of the SARS-CoV-2 virus (responsible for COVID-19 disease)
 (5) measurements without any pre-conditioning
 (6) according to Measurement report No. 210306/01– ICPF CAS, Laboratory of Aerosol Chemistry and Physics, Prague