

Technical data sheet NANOCLEANER 1600 Antimicrobial

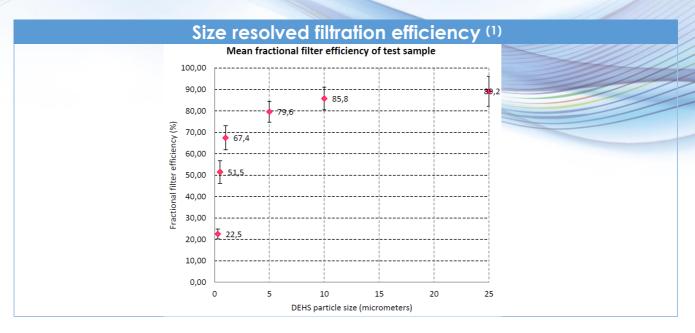
	Product Identifica	tion a	nd Use		
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MANUFACTURER:	NAFIGATE Park s.r.o., Andelohorska 419, CZ 46331 Chrastava, Czech Republic				
	IČ: 08555001, data box ID: 6fdd7p4				
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PRODUCT IDENTIFIER:	NANOCLEANER 1600 Antimicrobial				
PRODUCT CODE:	NC-A16				
COLOUR:	black				
PRODUCT USE:	O 1, ,				
	permeability and optimal allergen particle retention capability				
PRODUCT					
DESCRIPTION:	barrier preventing the penetration of the smallest objects such as smog, allergens, dust				
	and PM2.5 particles, and at the same time allows the passage of fresh air into the room.				
	Besides fine particle filtering effect, Nanocleaner also excels in heat transfer reduction.				
	Nanocleaner allows for safe ventilation through an open window, decreasing cost of				
	heating and/or air-conditioning and contributing to achieving the Green Deal goal - to				
	reduce energy consumption in buildings.				
PRODUCT STRUCTURE:					
	nanofibers / PES Protective fabric (anti flammable)				
MAJOR FEATURES \rightarrow	blocks out smog and exhaust		reduced dustiness		
→ BENEFITS:	fumes from cars				
	captures allergens, pollen, spores		ideal for allergy sufferers, asthmatics,		
	and PM _{2,5}	\rightarrow	and anybody with respiratory problems		
	reduces heat transfer				
	shading direct sunlight		heating		

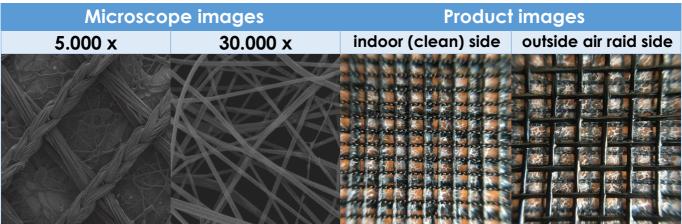
Product Properties					
Parameter Parame	Unit	Value			
Basis weight	g/m²	173 ± 2			
Total thickness	mm	0,47			
Nanofiber diameter	nm	120 ± 20			
Air permeability	I/m²/s @ 200 Pa	>1600 ⁽²⁾			
Initial pressure drop	Pa @5.3 cm/s	4,2 ⁽¹⁾			
Filtration Efficiency - (Particle at 10 μm)	% [EN 16890]	85,7 (1)			
Filtration Efficiency - (ePM10)	% [ISO 16890]	63,5 ⁽¹⁾			
Filtration Efficiency - (ePM2,5)	% [ISO 16890]	56,4 (1)			
Filtration Efficiency - (ePM1)	% [ISO 16890]	50,7 ⁽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:	Width: Length ⁽³⁾ : Outer diameter: Weight: Core diameter:	role: total (full) 150 cm 90 lin.m (or shorter on request) max. approx. 27 cm max. approx. 26 kg 76 mm (3")			
STORAGE:	storage life is 24 months, in the original packaging, in a dry, clean, well-ventilated area at room temperatures of 15-25°C. Do not wrap rolls with plastic foil, do not store in the direct sunlight.				

NC–A16–EN Issued: Nov 9th, 2022







Antimicrobial version

For all the environments where health care is essential: houses, schools, public places we developed and highly recommend the ANTIMICROBIAL Nanocleaner versions.

The ANTIMICROBIAL effect is based upon the one of the most natural physical and chemical principles: photocatalysis. Photocatalysis is "the increase of the speed of photoreaction at the presence of a catalysator". Catalysator are TiO2 particles firmly embedded in the PVC coating of the glass fiber mesh and is neither released nor exhausted by a chemical reaction during the use.

Photocatalysis is a process activated by light and air. Once Nanocleaner is at the presence of these elements, it starts a powerful process that leads to the production of reactive forms of oxygen (ROS) and triggers antibacterial, virucidal and anti-polluting effects. ANTIMICROBIAL Nanocleaner versions prevent microorganisms from growth and do not allow the accumulation of substances microorganisms feed upon.

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- (1) according to test report from CXI Institute for Nanomaterials and Advanced Technologies and Innovations TUL Czech Rep.
- (2) according to internal measurement on Palas PMFT 1000 and/or TexTest FX 3500 Combiscan Test rigs
- (3) guide value, which may vary depending on the length of the roll from the mesh supplier