



Product:	Neolution®Air Loop	 
REF:	253	
Manufacturer:	DACH Schutzbekleidung GmbH & Co. KG	

Classification:	<ul style="list-style-type: none"> CAT III Personal Protective Equipment accordingly Regulation (EU) 2016/425 Class I Medical Device according to Regulation (EU) 2017/745. Helmke Drum Test accordingly IEST-PR-CC003.4: Category I <p>We recommend the use in clean rooms accordingly EN ISO 14644-1: ISO class 3 to ISO class 9.</p>
Protection class:	<p>Particle filtering half mask FFP2 NR D accordingly EN 149:2001+A1:2009.</p> <p>Additionally complies with the requirements for Type IIR medical face masks according to EN 14683:2019+AC:2019 in terms of bacterial filtration efficiency, splash resistance pressure and microbial cleanliness.</p> <p>Very good skin compatibility scientifically proven by testing accordingly EN ISO 10993-5 (cytotoxicity), EN ISO 10993-10 (sensitization) and EN ISO 10993-23 (irritation): The materials used are not cytotoxic, not sensitizing and not irritating.</p>
Materials:	<ul style="list-style-type: none"> Mask: Polypropylene nonwoven Ear loops: textile elastic made from polyester and elastane, free from natural latex Nose clip: metal wire covered by plastic
Product description:	<p>The three-part respirator and medical face mask Neolution®Air Loop impresses with high-quality materials that guarantee the wearer maximum comfort. High-tech filter material generates a high filtering performance against solid and liquid aerosols with extremely low breathing resistance.</p> <p>Due to the three flexible mask parts, the mask follows the jaw movements when speaking. This ensures a constant tight fit.</p> <p>Quick and secure donning and doffing thanks to elastic ear loops. The thick ear loops fit comfortably around the ear without cutting in.</p> <p>Maximum protection even under extreme conditions: for disposable masks voluntary dolomite dust loading test passed!</p>

Product performance:	Product performance accordingly EN 149:2001+A1:2009						
	Filter efficiency						
	Class	Requirement			Test result		
		Maximum penetration			Actual penetration		
		NaCl 95 l/min	Paraffin oil 95 l/min		NaCl 95 l/min	Paraffin oil 95 l/min	
	FFP2 NR D	6%	6%	0,84%	<6%		
	Breathing resistance						
	Class	Requirement			Test result		
		Maxium breathing resistance (mbar)			Actual breathing resistance (mbar)		
		Inhalation		Exhalation	Inhalation		Exhalation
		30 l/min	95 l/min	160 l/min	30 l/min	95 l/min	160 l/min
	FFP2 NR D	0,7	2,4	3,0	0,2	0,7	1,18
	Leakage test						
Class	Requirement			Test result			
	Maximum total inward leakage (%)	Minimum Protection factor (Fit Factor)	Total inward leakage (%) ¹		Protection factor (Fit Factor) ^{1,2}		
FFP2 NR D	8	10	2,71		36,9		
¹ The leakage and protection factor values were determined as mean values with 10 test persons under laboratory conditions and are for reference only. The data does not represent the actual leakage of a person at the workplace and does not replace an individual fit test. ² The fit factor (protection factor) indicates the ratio between the particle concentration outside the mask and the particle concentration inside the mask.							
Carbon dioxide content of inhalation air							
Class	Requirement (max.)			Test result			
FFP2 NR D	1%			0,68%			

<i>Product performance according to EN 14683:2019 +AC:2019</i>		
Bacterial filtration efficiency (BFE)		
Class	Requirement	Test result
Type IIR	≥98 %	>99,7 %
Splash resistance pressure		
Class	Requirement	Test result
Type IIR	≥16,0 kPa	16,0 kPa

	Microbial cleanliness		
	Class	Requirement	Test result
	Type IIR	Maximum CFU/g value	Actual CFU/g value
		< 30	≤ 16
	*CFU = colony forming units.		
	Test results Helmke-Drum Test IEST-PR-CC003.4 (Average)		
	Particle size	Particle count (per cm²)	Helmke-Drum Test IEST-PR-CC003.4
	≥ 0,3 µm - < 0,5 µm	0,00066	Climatic conditions: 18°C +/- 2°C, 50% - 10% RH
	≥ 0,5 µm - <1,0 µm	0,00058	
	≥ 1,0 µm - < 5,0 µm	0,00058	
≥ 5,0 µm	0,00006		
Packaging and Variants	The product can be supplied in packages of 50 pieces per box or 3 pieces per bag.		
	Packaging	Quantity	
	Box	50 pcs.	
	Carton	300 pcs.	
GTIN and Colours:	253/W	White	4049825006558

	253/RO	Pink	4049825006930
	253/GY	Grey	4049825006947
	253/FL	Lilac	4049825006954
	253/B	Blue	4049825006961
	253/MT	Mint	4049825007098
Packaging and Variants	Packaging	Quantity	
	Bag	3 pcs.	
	Carton	270 pcs.	
GTIN and Colours:	253-3/W	White	4049825007289
	253-3/RO	Pink	4049825007296
	253-3/GY	Grey	4049825007302
	253-3/FL	Lilac	4049825007319
	253-3/B	Blue	4049825007326
	253-3/MT	Mint	4049825007333
Use:	For single use. Read the instructions before use.		
Storage:	Store in a dry place without direct sunlight in the original packaging (see packaging). If the storage conditions are observed, the product has a storage life of 5 years (see labelling on the product).		
Environmental sustainability and disposal:	In the case of contaminated products, the nature and extent of the contamination determines the disposal, following the applicable laws and regulations of the relevant country. A non-contaminated product can be thermally recycled or disposed of in landfills without releasing toxic substances.		