

# Technical Data Sheet

## Dräger Respiratory Filter

### X-plore® P100

<b>1.0 General Data</b>	
1.1	<b>Manufacturer</b> Dräger Safety AG & Co. KGaA Revalstraße 1, D – 23 560 Luebeck, Germany
1.2	<b>Designation</b> X-plore® filter P100
1.3	<b>Dräger part no.</b> 6740830
1.4	<b>Intended use</b> Respiratory protection against particles in conjunction with a specified face piece. Scope of protection as indicated by product documentation, technical standards and installed application rules.
1.5	<b>Relevant standards</b> Federal register 42 CFR part 84
1.6	<b>Certification</b> TC – 84A – 8121, TC – 84A – 8122, TC – 84A – 8108

<b>2.0 Design &amp; Construction</b>	
2.1	<b>Connection to facepiece</b> Dräger-specific bayonet connection
2.2	<b>Materials</b> Filter housing: ABS-plastic Particle filter: micro-glass fibres
2.3	<b>Design</b> The cartridge housing is tear drop shaped. At the inhalation side the filter housing has integrated air inlets. The particle filter is made of pleated paper. A leaktight connection between the particle filter and the particle filter housing is performed by glue.
2.4	<b>Working principle</b> Particles are filtered by the fibre filter.
2.5	<b>Shelf life</b> max. 12 years (10+2) from date of production
2.6	<b>Dimensions</b> Outer dimensions: 106 x 84 mm Height (incl. bayonet connection): 37 mm
2.7	<b>Weight</b> Excl. package: approx. 61 g

<b>3.0 Performance Data</b>		(minimum data in accordance with standard)	
3.1	<b>Particle filtration efficiency</b>	Test aerosol: DOP Minimum efficiency (42 CFR 84): 99.97%	
3.2	<b>Gas filtration capacity</b>	Not applicable	
3.3	<b>Inhalation breathing resistance (for system of mask and cartridges)</b>	at ½ x 85 litres/min, constant flow (42 CFR 84)	with half mask: max. 35 mm H <sub>2</sub> O initial with full face mask: max. 35 mm H <sub>2</sub> O initial
3.4	<b>Mechanical resistance</b>	Resistant to shock and vibration as required by EN 14387:2004	
3.5	<b>Chemical resistance</b>	For normal use conditions the filter is resistant against temperature, humidity and corrosives.  Filtering paper is hydrophobic, thus paper does not adsorb water. Water jet with pressure above max. 40 mbar must be avoided.	

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#### 4.0 Documentation

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|-----|----------------------|---|
| 4.1 | Markings             | <u>Laser printing</u> : showing batch number, expiry date, filter type, part number, designation. Approval marking: <b>NIOSH</b> (filter housing magenta) |
| 4.2 | Instructions for use | <u>3 languages</u> : US English, French, Spanish  |

#### 5.0 Packing & Packaging

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|-----|--------------|--|
| 5.1 | Package      | The filters are packed as pairs in a plastic foil bag.<br><br>11 pairs are packed in a cardboard box accompanied by one instruction for use. The box is robust for normal transportation and storage, closed with factory label indicating part number, filter type, quantity, batch number, expiry date and storage conditions (temperature, humidity). |
| 5.2 | Packing unit | 11 pairs   |

#### 6.0 User notes and Limitations

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|-----|-------------|--|
| 6.1 | System      | For use with <ul style="list-style-type: none"><li>• Dräger half masks X-plore® 3300 and X-plore® 3500</li><li>• Dräger full face mask X-plore® 5500</li></ul>   |
| 6.2 | Limitations | The filter conforms to the minimum requirements of the standard indicated by the class and type of the filter it is marked with. It must be noted that laboratory values can differ from those measured in practice. This may result in longer or shorter break through times. The user must read and understand the instructions for use. Additionally the knowledge of all relevant application rules is mandatory (see in particular the limitations in use). Further information on request. |

**Dräger Safety AG & Co. KGaA**