

Technical Data Sheet

Dräger Respiratory Filter

X-plore AM/MA

1.0 General Data

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| 1.1 | Manufacturer | Dräger Safety AG & Co. KGaA Revalstraße 1, D – 23 560 Luebeck, Germany |
| 1.2 | Designation | X-plore filter bayonet AM / MA |
| 1.3 | Dräger part no. | 6738027 |
| 1.4 | Intended use | Respiratory protection against industrial gases, vapors and particles in conjunction with a specified face piece. Scope of protection as indicated by product documentation, technical standards and installed application rules. |
| 1.5 | Relevant standards | Federal register 42 CFR part 84 |
| 1.6 | Certification | TC – 23C – 2224, TC – 23C – 2205 |

2.0 Design & Construction

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| 2.1 | Connection to facepiece | Dräger-specific bayonet connection |
| 2.2 | Materials | Cartridge housing: ABS-plastic Sorbents: activated carbon Labels: paper |
| 2.3 | Design | The cartridge housing is tear drop shaped. At the inhalation side the cartridge housing has integrated air inlets. There is one filter bed with activated carbon. It is fixed by the housing parts and fleece materials. |
| 2.4 | Working principle | Gases and vapors are removed from the ambient air by adsorption onto the sorbent (carbon). |
| 2.5 | Shelf life | max. 6 years (4+2) from date of production |
| 2.6 | Dimensions | Outer diameter: 103 x 81 mm (L x B) Height (incl. bayonet connection): 33.5 mm Volume carbon: 107 ml Volume of the filter: 147 ml |
| 2.7 | Weight | Excl. package: approx. 120 g |

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| 3.0 Performance Data | (minimum data in accordance with standard) | |
| 3.1 Particle filtration efficiency | Not applicable | |
| 3.2 Gas filtration capacity | Test conditions (42 CFR 84): | 25° C, % rel. humidity differs per gas |

| Type | Test gas | Test Condition / Flow rate (LPM) | Concentration | Breakthrough Concentration | Minimum Service Life |
|------|--|---------------------------------------|---------------|----------------------------|----------------------|
| AM | Ammonia (NH ₃) | as received / 64 equilibrated / 32 | 1,000 ppm | 50 ppm | 50 min |
| MA | Methylamine (CH ₃ NH ₂) | as received / 64 equilibrated / 32 | 1,000 ppm | 10 ppm | 25 min |

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| 3.3 Inhalation breathing resistance (for system of mask and cartridges) | at ½ x 85 litres/min, constant flow (42 CFR 84) | with half mask: max. 40 mm H ₂ O initial with full face mask: max. 40 mm H ₂ O initial |
| 3.4 Mechanical resistance | Resistant to shock and vibration as required by EN 14387:2004 | |
| 3.5 Chemical resistance | For normal use conditions the filter is resistant against temperature, humidity and corrosives. The filter is internally resistant against the filtering agents (sorbents). Ingress of water or other liquids must be avoided. | |

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| 4.0 Documentation | |
| 4.1 Markings | <u>Cartridge label</u> : showing color coding in accordance with 42 CFR part 84 and ANSI/AIHA Z88.7-2001, batch number, expiry date, filter type, part number, designation. Approval marking: NIOSH |
| 4.2 Instructions for use | <u>3 languages</u> : US English, French, Spanish |

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5.0 Packing & Packaging

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| 5.1 | Package | The filters are packed in pairs in a sealed aluminium foil bag. 10 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 | 10 pairs |

6.0 User notes and limitations

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| 6.1 | System | For use with <ul style="list-style-type: none">• Dräger half masks X-plore 3300 and X-plore 3500• Dräger full face mask X-plore 5500 |
| 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