



# Technical Data Sheet

## Dräger X-plore® 5500 EPDM / PC (R 55 270)

### Air Purifying Respirator

1.0 General Data				
1.1	Manufacturer	Dräger Safety AG & Co. KGaA		
1.2	Designation	Dräger X-plore® 5500 EPDM / PC Full Mask Respirator		
1.3	Dräger Part Number	R 55 270		
	EAN Code	4026056001057		
1.4	Intended Use	Respirator for protection against particulates, gases and vapors in conjunction with suitable respiratory filters. The scope is limited by the product documentation, technical standards, installed application rules and choice of respiratory filters.		
1.5	Relevant Standards	EN 136:1998 Class 2	Federal register 42 CFR part 84 <sup>(1)</sup>	AS/NZS 1716:2003 GOST R 12.4.189-99
1.6	Certification Body	DEKRA EXAM GmbH Dinnendahlstr. 9 44809 Bochum Germany Reference number: CE 0158	National Institute for Occupational Safety and Health (NIOSH) 626 Cochrans Mill Road Pittsburgh, PA 15236 USA	SAI Global Assurance Services Ltd Winterhill House Snowdon Drive Milton Keynes MK6 1AX United Kingdom

2.0 Design & Construction		
2.1	Filter Connection	Dräger-specific bayonet connection
2.2	Material	Mask Body: EPDM Lens: Polycarbonate (PC) Filter Connecting Piece: Plastic Lens Frame: Plastic (Blue) Inner Mask: EPDM Head Harness: EPDM Inhalation Valves: Natural Rubber Exhalation Valve: Natural Rubber
2.3	Construction	The X-plore® 5500 consists of nine main components: mask body, lens, lens frame, head harness, inner mask, two lateral bayonet filter connectors, front connector piece, two inhalation valves and an exhalation valve. The mask body is of one solid mold which all components are attached. The lens and lens frame are rigid which allows the mask to maintain its form. The head harness provides adjustability to achieve proper fit. The inner mask is shaped similar to a half mask and channels airflow. The inhalation valves are flat discs that only allow air into the mask and the exhalation valve is of a stepped design to apply even sealing pressure that only allows air to exit the mask.
2.4	Working Principle	The full face mask, in combination with a pair of breathing filters, offers respiratory and eye protection against gases, vapors, and/or particles. Scope and effectiveness of respiratory protection results from the combination of full-face mask with suitable and certified respiratory protective filters, along with following local regulations on use limitations. In the mask body is a viewing lens which is tightly clamped. The sealing line on the inside of the mask body conforms to the face of the wearer along the forehead, cheeks and under the chin. A head harness with adjustable buckles firmly holds the mask onto the face. An inner mask with control valves directs the flow of exhaled air towards the exhalation valve and out of the mask, thus minimizing fogging of the lens. The inner mask also reduces CO <sub>2</sub> build-up (in the dead space) according to standards.
2.5	Sizes	One size: fits all with integrated double sealing surfaces
2.6	Service-life	Only certain components (e.g. exhalation valve) must be periodically replaced. See Instructions For Use for details. There are no time limitations on mask materials assuming proper storage, maintenance and cleaning as stated in IFU. Damage and wear are outside of this statement.
2.7	Dimensions (approx.)	Height: 213mm      Width: 165mm      Depth: 135mm
2.8	Weight (approx.)	550g

3.0 Performance		
3.1	Inhalation Resistance	< or = 0.5 mbar @ 30 l/min constant flow < or = 1.5 mbar @ 95 l/min constant flow < or = 2.5 mbar @ 160 l/min constant flow
3.2	Exhalation Resistance	< or = 3.0 mbar @ 160l/min constant flow
3.3	Temperature Resistance	to EN 136 class 2 (conditioned at +70°C and -30°C and then tested)
3.4	Flammability	to EN 136 class 2 (exposed to a 950°C flame for 5s and then leak tested)
3.5	Speech Diaphragm	Plastic (25% glass filled)
3.6	Inward Leakage	< or = 0.05% (to EN 136)

<b>4.0 Documentation</b>	
4.1 Identification	<ul style="list-style-type: none"> <li>- "Dräger X-plore 5500" on the mask body</li> <li>- "EPDM" on the mask body</li> <li>- "PC" on the lens</li> <li>- "CA 15361 R55270" on the lens frame</li> <li>- "K/bl" on the lens frame</li> <li>- CE marking on the mask body ("EN136:1998CL2 CE 0158")</li> <li>- Barcode on lens</li> </ul>
4.2 Instructions	<p>Each unit contains an instruction booklet in the following languages:            English, German, French, Spanish, Portuguese, Italian, Dutch, Norwegian, Swedish, Danish, Finnish, Russian, Greek, Turkish</p> <p>Additionally, a NIOSH version in English, French, Spanish</p>
<b>5.0 Packaging</b>	
5.1 Packaging	Durable, color printed carton, marked with: features, application uses, manufacturer location, use warning and relevant approvals. The closing label includes the product number, name, EAN code, control number and manufacturing location.
5.2 Packing Unit	1 Full mask per box
<b>6.0 User Notes</b>	
6.1 System Usability	Suitable with certified respiratory filters with Dräger-specific bayonet connection (series Dräger X-plore ® bayonet).
6.2 Limitations	This mask meets the minimum requirements according to specified standards (see label). It should be noted that laboratory test values may significantly differ from those that are achieved in practice. The user must read and understand all instructions for use. In addition, the knowledge of all relevant application rules is absolutely necessary (in particular the limits of use for masks and filter units). More information will be made available upon request.

(1) In connection with approved respiratory filters (see Approval Label).