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DIRIN 230 NBC A2B2E2K2 HG P3 R



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**DIRIN 230 NBC
A2B2E2K2 Hg P3 R**

EN 14387:2021 • Cod. 4341.0652

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DESCRIPTION

The **DPI Leonardo DIRIN 230 NBC A2B2E2K2HgP3 R Filter** is a critical asset when attending known or potential NBC incidents. With an NBC A2B2E2K2HgP3-level combined filter element surpassing EN 14387:2021 requirements it achieves unparalleled performance, defending against Sarin, Cloropichrin, Hydrogen Cyanide and related CWAs, Tear Gasses, Organic TICs, Inorganic TICs, Acid TICs, Ammonia and Amine gases, Mercury, Dusts, Mists, Fumes, Biological Agents (including Bacteria, Viruses and Fungal Spores and Radioactive Dusts). The DIRIN 230 NBC A2B2E2K2HgP3 R Filter seamlessly integrates with DPI Leonardo DSPS Full Face Masks for a secure fit in today's challenging environments.

- **DIRIN 230 NBC A2B2E2K2 Hg P3 R** Item no. **43410652**
- **DIRIN 230 NBC A2B2E2K2 Hg P3 R vacuum sealed** Item no. **43410652***

FEATURES

- **Filter connection:** EN 148-1 - Rd 40x1/7" threaded connection;
- **Compatible masks:** M21, C21 and IDEA CBRN full face masks;
- **Weight:** 290 g. ± 5%;
- **Dimensions:** Height included thread 90mm, diameter 90mm;
- **Shelf life:** 6 years - 10 years vacuum sealed version;
- **Materials:** Resistant and anti-scratch high-quality ABS resin;
- **Filtering materials:** Activated carbon and filter paper;
- **Packaging:** Complete with 2 plastic covers, on both threaded connector and filter bottom. 1 piece, packed in a carton box 98mm x 98mm x 98mm;
- **Conditions of Storage:**
 - » *In Plastic Packaging:* Temperature between -5°C and +55°C RH<80%;
 - » *In Vacuum Aluminum Packaging:* Temperature between -10°C and +55°C RH <90%;
- **Marking:**
 - » Marking R means the filters can be used for more than one shift of work;
- **Limitations for use:** Do not use in areas where the oxygen concentration is lower than 18% in volume nor in presence of gases different from those clearly indicated.





TECHNICAL SPECIFICATIONS

BREATHING RESISTANCE						
At	Norm requirements			DIRIN 230 NBC A2B2E2K2HgP3 R D		
30 l/min	max. 2,6 mbar			< 2,6 mbar		
95 l/min	max. 9,8 mbar			< 9,8 mbar		
DURATION AT GASES (EN 14387:04/A1:2008)						
Filter type	Class	Gas	Concentration (ppm)	Breakthrough point (ppm)	Duration (minutes)	
					Norm requirements	Perormed tests
A	2	C6H12	5 000 ppm	10 ppm	35 minutes	>35 minutes
B	2	H2S	5 000 ppm	10 ppm	40 minutes	>40 minutes
	2	Cl2	5 000 ppm	0.5 ppm	20 minutes	>20 minutes
	2	HCN	5 000 ppm	10 ppm	25 minutes	>25 minutes
E	2	SO2	5 000 ppm	5 ppm	20 minutes	>20 minutes
K	2	NH3	5 000 ppm	25 ppm	40 minutes	>40 minutes
Hg	hg	--	1600 ml/m3	0.1 ml/m3	100 hours	>100 hours
DURATION AT CBRN GASES						
Gas	Concentration (ppm)	Air Flow (l/min)	Breakthrough point (ppm)	Duration (minutes)		
				Norm requirements	Perormed tests	
GB (SARIN)	500 mg/m3	30 l/min	0.1 mg/m3	180 minutes	>180 minutes	
CCL ₃ NO ₂ (CLOROPICHRIN)	5000 mg/m3	50 l/min	5 mg/m3	37,5 minutes	> 37,5 minutes	
HCN (HYDROGEN CYANIDE)	2000 mg/m3	50 l/min	5 mg/m3	12,5 minutes	> 12,5 minutes	
PARTICULATE FILTER TEST						
				Norm requirements	Measured values	
Paraffin oil (DOP)%				max. 0,05%	< 0,05 %	
Sodium chloride (NaCl)%				max. 0,05%	< 0,05 %	

- Do not use in environments where the oxygen level is less than 18%
- The maximum service time of the special filter against mercury is 50 h. This applies if no other hazardous agents has penetrated the filter earlier. The filter must always be replaced in case of penetration by a hazardous agent.
- The quoted values for NBC gases are given here to indicate levels of performance only, not unconditional warranties under all possible operating conditions.



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