

DATA SHEET

CBRN filter (Europe)



Updated: 01 Aug 2011

Description:	CBRN (chemical, biological, radiological, nuclear) filter
Product name:	125-CBRN1-CE
Use:	<p>Protection against particulates, dust, smoke, fumes, bacteria, chemical and biological warfare agents, ammonia, and a wide range of organic, inorganic and acid gases.</p> <p>Intended for use in CBRN applications with SE40 positive-pressure demand CBRN PAPR and FP-C CBRN APR.</p>
Approvals:	<p>With SE40 CBRN PAPR: BS 8468-4:2008 Class 90 TM3P SL</p> <p>With FP-C negative-pressure RPD: BS 8468-2:2006 Class 15 P3</p>
Housing material:	ABS/PC plastic
Weight:	495 g (17.5 oz)
Filter medium:	Non-woven hydrophobic glassfibre paper, mechanical filtration
Breathing resistance:	<50mm H ₂ O (4.9 mbar) at 85 l/min
Filter efficiency:	<p>P4 — penetration <0.003% using paraffin oil at 95 l/min</p> <p>P4 high flow — penetration 0.01% using paraffin oil at 250 l/min</p> <p>This performance far exceeds the BS 8468 penetration requirement of 0.05%</p>
Gas capacity:	<p>SE40 CBRN PAPR with dual filters: Service life exceeds the 90-minute requirement of BS8468-4:2008 Capacity Class 90 for CBRN PAPR for all 10 Test Representative Gases (TRGs). Tests were performed at a flow rate equivalent to a breathing rate of 30 l/min average.</p> <p>FP-C negative pressure RPD with single filter: Service life exceeds the 15-minute requirement of BS8468-2:2006 Capacity Class 15 for CBRN Negative Pressure RPD for all 10 Test Representative Gases (TRGs). Tests were performed at 64 l/min.</p>
Chemical agent permeation and penetration resistance:	The filter was tested with FP-C CBRN APR and SE40 CBRN PAPR by NIOSH on breathing machine against distilled sulfur mustard (HD) and sarin (GB). The devices achieved a capacity of 8 hours for HD and GB vapor, and 2 hours for HD liquid. Tests were performed at a breathing rate of 40 l/min.
Storage period :	10 years if foil packaging intact
Storage:	Store at room temperature in clean, dry place