Technical Data Sheet

MSA The Safety Company

Description

Description	93 ABEK Hg / St
Part Number	10097231
Marking according to EN	A2, B2, E2, K1, Hg - P3
Conditions of use	• organic gases and vapors with a boiling point > 65° C • inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide • sulfur dioxide, hydrogen chloride and other acid gases • ammonia and organic ammonia derivatives • mercury • particles

Colour code

brown
grey
yellow
green
red
white

CE 0121

Labels

Characteristics

Weight [g]	295
Diameter [mm]	107
Height incl. thread [mm]	78
Connection	EN 148-1

Breathing Resistance

	at	EN 14387 requirements	Typical values
	30 l / min	2,6 mbar	1,70 mbar
	95 l / min	9,8 mbar	6,50 mbar

Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]
Class 2	5000 ppm [0,5 Vol.-%]
Hg	13 mg/m³

Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C_6H_{12}]	35 min	45 min
B2	chlorine [Cl_2]	20 min	40 min
	hydrogen sulfide [H_2S]	40 min	55 min
	hydrocyanic acid [HCN]	25 min	45 min
E2	sulfur dioxide [SO_2]	20 min	22 min
K1	ammonia [NH_3]	50 min	60 min
Hg	mercury [vapor]	100 h	> 100 h
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	sodium chloride [NaCl]	0,05%	< 0,01%
	paraffin oil	0,05%	< 0,01%
R	Reusable according EN 143:2000/A1:2006		
D	Dolomite clogging test & marking according to EN 143:2000/A1:2006 and EN 14387		

Material

Housing	aluminium
Cover (particle filter)	polypropylene
Filtering material	filtering paper / impregnated activated carbon

Details/Special Information

Storage conditions & time	- 5 °C to + 50°C, < 90 % r. h. 6,0 years

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.