

## Technical Data Sheet

### Description

Description	93 ABEK CO NO Hg / St	93 ABEK CO NO Hg P3								
Part Number	10115315	10160507								
Marking according to EN	A1, B2, E2, K1, CO, NO, Hg-P3									
Conditions of use	<ul style="list-style-type: none"> <li>organic gases and vapors with a boiling point &gt; 65° C</li> <li>inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide</li> <li>sulfur dioxide, hydrogen chloride and other acid gases</li> <li>ammonia and organic ammonia derivatives</li> <li>carbon monoxide</li> <li>nitrous gases, e.g. NO, NO<sub>2</sub>, NO<sub>x</sub></li> <li>mercury</li> <li>particles</li> </ul>									
Colour code	<table border="1"> <tr><td>brown</td></tr> <tr><td>grey</td></tr> <tr><td>yellow</td></tr> <tr><td>green</td></tr> <tr><td>black</td></tr> <tr><td>blue</td></tr> <tr><td>red</td></tr> <tr><td>white</td></tr> </table>	brown	grey	yellow	green	black	blue	red	white	
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Label										

### Characteristics

Weight [g]	420
Diameter [mm]	108,2
Height incl. thread [mm]	88
Connection	EN 148-1

### Breathing Resistance

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

### Concentration of Testing Gases

Class 1	1000 ppm [0,1 vol.-%]
Class 2	5000 ppm [0,5 vol.-%]
NO, CO	2500 ppm [0,25 vol.-%]
Hg	13 mg/m <sup>3</sup>

### Performances

Filter type and class	Gases of reference	EN 14387/58620 requirements	Typical values
A1	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	70 min	130 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	32 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	> 120 min
	hydrocyanic acid [HCN]	25 min	95 min
E2	sulfur dioxide [SO <sub>2</sub> ]	20 min	40 min
K1	ammonia [NH <sub>3</sub> ]	50 min	100 min
CO 20	carbon monoxide [CO]	< 200 ppm [temporal weighted average / 20 min]	23 min
NO	nitric oxide [NO]	20 min	48 min
	nitrogen dioxide [NO <sub>2</sub> ]	20 min	40 min
Hg	mercury [vapor]	100 h	> 200 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 / hopcalite / impregnated activated carbon

### Details/Special Information

Storage conditions & time	- 5 °C to + 50°C, < 90 % r. h. 4,0 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.	