

# Technical Data Sheet



## Description

Description	93 A/St
Part Number	10115189
Marking according to EN	A2 - P3
Conditions of use	<ul style="list-style-type: none"> <li>organic gases and vapors with a boiling point &gt; 65° C</li> <li>particles</li> </ul>



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Labels		
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## Characteristics

Weight [g]	260
Diameter [mm]	107
Height incl. thread [mm]	78
Connection	EN 148 - 1

## Breathing Resistance

	at	EN 14387 requirements	Typical values
	30 l / min	2,60 mbar	1,20 mbar
	95 l / min	9,80 mbar	4,60 mbar

## Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]
Class 2	5000 ppm [0,5 Vol.-%]

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	60 min
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
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# Technical Data Sheet



## Description

Description	93 AB/St
Part Number	10097993
Marking according to EN	A2, B2 - 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>particles</li> </ul>



## Colour code

brown
grey
white

## Labels



## Characteristics

Weight [g]	270
Diameter [mm]	107
Height incl. thread [mm]	78
Connection	EN 148 - 1

## Breathing Resistance

at	EN 14387 requirements	Typical values
30 l / min	2,60 mbar	1,40 mbar
95 l / min	9,80 mbar	5,50 mbar

## Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]
Class 2	5000 ppm [0,5 Vol.-%]

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	60 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	40 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	60 min
	hydrocyanic acid [HCN]	25 min	45 min
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
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# Technical Data Sheet

## Description

Description	93 ABEK Hg / St	
Part Number	10097231	
Marking according to EN	A2, B2, E2, K1, 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>mercury</li> <li>particles</li> </ul>	

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Labels			
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## 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/m <sup>3</sup>

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	45 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	40 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	55 min
	hydrocyanic acid [HCN]	25 min	45 min
E2	sulfur dioxide [SO <sub>2</sub> ]	20 min	22 min
K1	ammonia [NH <sub>3</sub> ]	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] paraffin oil	0,05% 0,05%	< 0,01% < 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.	

# Technical Data Sheet



## Description

Description	93 ABEK 2 Hg / St								
Part Number	10097232								
Marking according to EN	A2, B2, E2, K2, 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>mercury</li> <li>particles</li> </ul>								
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## Characteristics

Weight [g]	350		
Diameter [mm]	107		
Height incl. thread [mm]	88		
Connection	EN 148 - 1		

## Breathing Resistance

	at	EN 14387 requirements	Typical values
	30 l / min	2,6 mbar	2,00 mbar
	95 l / min	9,8 mbar	8,00 mbar

## Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]		
Class 2	5000 ppm [0,5 Vol.-%]		
Hg	13 mg / m <sup>3</sup>		

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	60 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	55 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	65 min
	hydrocyanic acid [HCN]	25 min	60 min
E2	sulfur dioxide [SO <sub>2</sub> ]	20 min	33 min
K2	ammonia [NH <sub>3</sub> ]	40 min	55 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 to 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.	

## Description

Description	F 93 ABEK 2 Hg / St		
Part Number	10098022		
Marking according to EN	A2, B2, E2, K2, 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>mercury</li> <li>particles</li> </ul>		
Colour code			
Labels			

## Characteristics

Weight [g]	370
Diameter [mm]	107
Height incl. thread [mm]	90
Connection	EN 148-3 [M 45 x 3]

## Breathing Resistance

	at	EN 14387 requirements	Typical values
	30 l / min	2,60 mbar	2,00 mbar
	95 l / min	9,80 mbar	8,00 mbar

## Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]
Class 2	5000 ppm [0,5 Vol.-%]
Hg	13 mg / m <sup>3</sup>

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	60 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	55 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	65 min
	hydrocyanic acid [HCN]	25 min	60 min
E2	sulfur dioxide [SO <sub>2</sub> ]	20 min	33 min
K2	ammonia [NH <sub>3</sub> ]	40 min	55 min
Hg	mercury [vapor]	100 h	> 100 h

Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	sodium chloride [NaCl] paraffin oil	0,05% 0,05%	< 0,01% < 0,01%

## 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.	

# Technical Data Sheet



## Description

Description	93 AX / St
Part Number	10108409
Marking according to EN	AX, P3
Conditions of use	<ul style="list-style-type: none"> <li>low-boiling organic compounds [boiling point <math>\leq 65^\circ\text{C}</math>] of groups 1 and 2</li> <li>particles</li> </ul>



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Labels

93 AX/St  
EN 14387 AX - P3 R D  
DСТУ EN 14387:2006 AX - P3  
10108409  
CE 0121  
AX max 7x  
YYYYMM

93 AX/St  
10108409  
EN 14387 AX - P3 R D

CE 0121

## Characteristics

Weight [g]	260
Diameter [mm]	107
Height incl. thread [mm]	88
Connection	EN 148-1

## Breathing Resistance

at	EN 14387 requirements	Typical values
30 l / min	2,60 mbar	1,55 mbar
95 l / min	9,80 mbar	5,80 mbar

## Concentration of Testing Gases

dimethyl ether	0,05 Vol.-%
isobutane	0,25 Vol. %

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
AX	dimethyl ether [CH <sub>3</sub> OCH <sub>3</sub> ]	50 min	75 min
	isobutane [C <sub>4</sub> H <sub>10</sub> ]	50 min	75 min
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 to 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 / unimpregnated activated carbon

## Details/Special Regulations

• Against the low boiling compounds of groups 1 and 2 gas filters AX according to EN 14387 must be used. The following maximum concentrations and usetimes apply:

low boiling compounds group	max. concentration [ml/m <sup>3</sup> ]	max. usetime [min]
1	100	40
	500	20
	1000	60
2	5000	20

• For low boiling compounds of group 3 protection is provided by filters other than AX [e.g. type B or K], for low boiling compounds of group 4 gas filters provide no sufficient protection.

• AX filters may also be used as A2 filters. In this case however, they shall not be used against low boiling compounds.

• Use of AX filters against mixtures of low boiling compounds or mixtures of low boiling compounds and other organic compounds is not permitted because desorption effects max occur.

• Only factory sealed AX filters must be used. Within one work shift [max. 8 hours] repeated use is permitted, provided the maximum usetime, listed in the above table is not exceeded. Further use is not permitted.

**storage condition&time**    5°C to 50 °C < 90 % r.h..    **6,5 years**

# Technical Data Sheet



## Description

Description	93 Hg / St
Part Number	10115201
Marking according to EN	Hg-P3
Conditions of use	<ul style="list-style-type: none"> <li>mercury and particles</li> </ul>



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Labels	 
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## Characteristics

Weight [g]	270
Diameter [mm]	107
Height incl. thread [mm]	78
Connection	EN 148-1

## Breathing Resistance

	at	EN 14387 requirements	Typical values
30 l / min		2,60 mbar	1,20 mbar
95 l / min		9,80 mbar	4,60 mbar

## Concentration of Testing Gases

Hg	13 mg/m <sup>3</sup>
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## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
Hg	mercury [vapor]	100 h	> 190 h
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	sodium chloride [NaCl] paraffin oil	0,05% 0,05%	< 0,01% < 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.	

# Technical Data Sheet



## Description

Description	93 K/St			
Part Number	10115190			
Marking according to EN	K2 - P3			
Conditions of use	<ul style="list-style-type: none"> <li>• ammonia and organic ammonia derivatives</li> <li>• particles</li> </ul>			
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## Labels



**93 K/St**  
EN 14387 K2 - P3 R D  
DСТУ EN 14387:2006 K2 - P3

CE 0121

**93 K/St**  
**10115190**  
Combined Filter Kombinierte Filter  
Kombinationsfilter Kombinierte Filter  
Filter combiné Filtre combiné  
Filtre combinado Filtre combinado  
Filtre combinada Filtre combinada  
Kombinierte Filter Kombinierte Filter  
Kombinationsfilter Kombinierte Filter  
EN 14387 K2 - P3 R D

CE0121

## 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	2,60 mbar	1,40 mbar
95 l / min	9,80 mbar	5,50 mbar

## Concentration of Testing Gases

Class 1	1000 ppm [0,1 Vol.-%]
Class 2	5000 ppm [0,5 Vol.-%]

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
K2	ammonia [NH <sub>3</sub> ]	40 min	<b>60 min</b>
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	sodium chloride [NaCl] paraffin oil	0,05% 0,05%	< 0,01% < 0,01%
R	Reusable according to 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. 6,5 years
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## 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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### 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.	

# Technical Data Sheet



## Description

Description	93 NO CO / St	
Part Number	10115314	
Marking according to EN	NO-P3, CO	
Conditions of use	<ul style="list-style-type: none"> <li>nitrous gases, e.g. NO, NO<sub>2</sub>, NO<sub>x</sub></li> <li>carbon monoxide</li> <li>particles</li> </ul>	

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blue					
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Labels			
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## Characteristics

Weight [g]	470		
Diameter [mm]	108,2		
Height incl. thread [mm]	78		
Connection	EN 148-1		

## Breathing Resistance

	at	EN 14387 requirements	Typical values
	30 l / min	2,60 mbar	1,50 mbar
	95 l / min	9,80 mbar	5,50 mbar

## Concentration of Testing Gases

NO, CO	2500 ppm [0,25 Vol.-%]
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## Performances

Filter type and class	Gases of reference	EN 14387/58620 requirements	Typical values
NO	nitric oxide [NO]	20 min	73 min
	nitrogen dioxide [NO <sub>2</sub> ]	20 min	42 min
CO 20	carbon monoxide [CO]	< 200 ppm [temporal weighted average / 20 min]	35 min
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

## Details/Special Information

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



## Description

Description	93 Reaktor B/St					
Part Number	10115318					
Marking according to EN	A2, B2, E1 - 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>radioactive methyl iodide and radioactive particles</li> </ul>					
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grey						
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white						



## Labels



CE0121

## Characteristics

Weight [g]	285
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 test gases - EN 14387

Class 2	5000 ppm [0,5 Vol.-%]
Class 1	1000 ppm [0,5 Vol.-%]

## DIN 58621-Reaktor

	DIN 58621-Reaktor requirements	Typical values
radioactive methyl iodide	filtration efficiency: 99,9 %.	> 99,9999 %

## Performances

Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	cyclohexane [C <sub>6</sub> H <sub>12</sub> ]	35 min	60 min
B2	chlorine [Cl <sub>2</sub> ]	20 min	50 min
	hydrogen sulfide [H <sub>2</sub> S]	40 min	60 min
	hydrocyanic acid [HCN]	25 min	50 min
E1	sulfur dioxide [SO <sub>2</sub> ]	20 min	> 60 min
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 14387:2008		

## 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
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