S-CAP

Technical Datasheet

MSA The Safety Company

Description			
Name	SCAP Hood		
Part Numbers	10064644	S-Cap in cardboard box	
	10064645	S-Cap in wall box	
	10064646	S-Cap in fireman's pack [pack of three]	
	10101163	S-Cap in container Elite (pack of two)	
	10081637	S-Cap in pouch	
	10113222	S-Cap in pouch without carrying strap	
Marking according to EN	EN 403:2004 Class S: designed to be stored Class M: designed to be carried on the person or a vehicle		
Conditions of use	• Fire escape hood for one-time use only • filtering device dependent on ambient air which should only be used in areas where there is an adequate level of oxygen • designed to protect persons endangered by smoke and gases		













Characteristics			
Weight (g)	630 [ready for use]		
Dimensions HxBxD [mm] approx.	310 x 180 x 230		
	• cardboard box 285 x 155 x 115 • wall box 285 x 155 x 125 • fireman's pack 405 x 225 x 140 • pouch 240 x 120 x 110 • bag 210 x 115 x 105		
Connection	hood with integrated half mask		
Breathing Resistance			
	at	**EN 403:2004 requirements**	**Typical values**
Inhalation resistance approx.	95 l / min	8 mbar	6,25 mbar
Exhalation resistance approx.	95 l / min	3 mbar	1,92 mbar
Concentration of Testing Gases acc. To EN403			
	Standard Concentration	**Other concentration**	**Breakthrough Concentration**
propenal (acrolein) [C3H4O]	100 ml/m3 [0,01 Vol.-%]		0,5 ml/m3
hydrogen chloride [HCl]	1000 ml/m3 [0,1 Vol.-%]		5 ml/m3
hydrocyanic acid [HCN]	400 ml/m3 [0,04 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	10 ml/m3
carbon monoxide [CO]	2500 ml/m3 [0,25 Vol.-%]		200 ml/m3
Concentration of Testing Gases (internal tests, not certified, for information only)			
	Test Concentration	**Other concentration**	
ammonia [NH3]	2000 ml/m3 [0,2 Vol.-%]	5000 ml/m3 [0,5 Vol.-%]	
chlorine [Cl2]	1000 ml/m3 [0,1 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	
cyclohexane [C6H12]	2500 ml/m3 [0,25 Vol.-%]		
hydrosulfide [H2S]	2500 ml/m3 [0,25 Vol.-%]	5000 ml/m3 [0,5 Vol.-%]	
sulfur dioxide [SO2]	1000 ml/m3 [0,1 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	
Performances (at 30 l/min)			
Performance against gases (EN 403)	**Gases of reference**	**EN 403:2004 requirements**	**Typical values EN-test conc. / Other conc.**
	propenal [C3H4O]	15 min	40 min
	hydrogen chloride [HCl]	15 min	200 min
	hydrocyanic acid [HCN]	15 min	500 min/ >20 min
	carbon monoxide [CO]	15 min	> 20 min
Performance against gases (internal)	**Gases of reference**		**Typical values / Other conc.**
	ammonia [NH3]	-	40 min/ > 20 min
	chlorine [Cl2]	-	10 min/ > 6 min
	cyclohexane [C6H12]	-	7 min
	hydrosulfide [H2S] 2500 ppm	-	> 25 min
	hydrosulfide [H2S] 5000 ppm	-	> 25 min
	sulfur dioxide [SO2]	-	100 min/ 20 min
Performance against particle	**Particles of reference**	**EN 403:2004 requirements**	**Typical values**
P2	sodium chloride [NaCl]	6%	1,40%
	Paraffin oil	6%	1,50%
Material			
Hood	Coated PVC		
Neck seal	Cotton		
Lens	PET		
Inner mask	NR natural rubber, grey		
Filtering element	Filtering paper / impregnated activated carbon		
Details/Special Information			
Storage conditions & time	- 5 °C to + 50°C, < 90 % r. h.	Factory sealed in foil bag under proper storage conditions maintenance-free for 4 years The maximum shelf time is 10 years [4 + 4 + 2 years] for class S and 8 years [4 + 2 + 2 years] for class M	

Warning: These values must not be applied as basis for the performance times, they are exclusively an indication that the S-Cap protects against these gases, but only within the EN 403:1993 as escape hood for 15 minutes!

SmokeHood

Technical Datasheet

Description			
Name	Smoke Hood		
Part Numbers	B1440005		
Marking according to EN	EN 403:2004 Class S: designed to be stored		
Conditions of use	• Fire escape hood for one-time use only • filtering device dependent on ambient air which should only be used in areas where there is an adequate level of oxygen • specially designed to the exacting requirements of the oil production industry, for self rescue		
Characteristics			
Weight (g)	630 [ready for use]		
Dimensions HxBxD [mm] approx.	200 x 110 x 80 (pouch)		
Connection	hood with integrated half mask		
Breathing Resistance			
	at	**EN 403:2004 requirements**	**Typical values**
Inhalation resistance approx.	95 l / min	8 mbar	6,25 mbar
Exhalation resistance approx.	95 l / min	3 mbar	1,92 mbar
Concentration of Testing Gases acc. To EN403			
	Standard Concentration	**Other concentration**	**Breakthrough Concentration**
propenal (acrolein) [C3H4O]	100 ml/m3 [0,01 Vol.-%]		0,5 ml/m3
hydrogen chloride [HCl]	1000 ml/m3 [0,1 Vol.-%]		5 ml/m3
hydrocyanic acid [HCN]	400 ml/m3 [0,04 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	10 ml/m3
carbon monoxide [CO]	2500 ml/m3 [0,25 Vol.-%]		200 ml/m3
Concentration of Testing Gases (internal tests, not certified, for information only)			
	Test Concentration	**Other concentration**	
ammonia [NH3]	2000 ml/m3 [0,2 Vol.-%]	5000 ml/m3 [0,5 Vol.-%]	
chlorine [Cl2]	1000 ml/m3 [0,1 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	
cyclohexane [C6H12]	2500 ml/m3 [0,25 Vol.-%]		
hydrosulfide [H2S]	2500 ml/m3 [0,25 Vol.-%]	5000 ml/m3 [0,5 Vol.-%]	
sulfur dioxide [SO2]	1000 ml/m3 [0,1 Vol.-%]	2500 ml/m3 [0,25 Vol.-%]	
Performances (at 30 l/min)			
Performance against gases (EN 403)	**Gases of reference**	**EN 403:2004 requirements**	**Typical values EN-test conc. / Other conc.**
	propenal [C3H4O]	15 min	40 min
	hydrogen chloride [HCl]	15 min	200 min
	hydrocyanic acid [HCN]	15 min	500 min/ >20 min
	carbon monoxide [CO]	15 min	> 20 min
Performance against gases (internal)	**Gases of reference**		**Typical values / Other conc.**
	ammonia [NH3]	-	40 min/ > 20 min
	chlorine [Cl2]	-	10 min/ > 6 min
	cyclohexane [C6H12]	-	7 min
	hydrosulfide [H2S] 2500 ppm	-	> 25 min
	hydrosulfide [H2S] 5000 ppm	-	> 25 min
	sulfur dioxide [SO2]	-	100 min/ 20 min
Performance against particle	**Particles of reference**	**EN 403:2004 requirements**	**Typical values**
P2	sodium chloride [NaCl]	6%	1,40%
	Paraffin oil	6%	1,50%
Material			
Hood	PVC/Polyester/Cotton		
Neck seal	Rubber		
Lens	PVC		
Inner mask	NR natural rubber, grey		
Filtering element	Filtering paper / impregnated activated carbon		
Details/Special Information			
Storage conditions & time	- 5 °C to + 50°C, < 90 % r. h.	Factory sealed in foil bag under proper storage conditions maintenance-free for 4 years. The maximum shelf time is 10 years [4 + 4 + 2 years] for class S devices	

Warning: These values must not be applied as basis for the performance times, they are exclusively an indication that the hood protects against these gases, but only within the EN 403:1993 as escape hood for 15 minutes!