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		
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.	6,0 years	

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!
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 S-Cap stored on vehicles 8 years.i

SmokeHood

Technical Datasheet

Description			
Name	Smoke Hood		
Part Numbers	B1440005		
Marking according to EN	EN 403:2004		
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.	6,0 years	

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!
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 S-Cap stored on vehicles 8 years.