

COMPLETE SUITS

Conditioning of whole suit (clause 5.2):

- a) at least 4 hours in an atmosphere of $(60 \pm 3) ^\circ\text{C}$ and at a relative humidity of 95% followed by:
- b) at least 4 hours at a temperature of $(-30 \pm 3) ^\circ\text{C}$ with return to room temperature

<i>Requirement and clause in standard</i>	<i>Standard/clause referenced</i>	<i>Notes</i>	Applicable to:			
			<i>1a</i>	<i>1b</i>	<i>1c</i>	<i>2</i>
5.3 – Leak tightness	EN 464 (300 Pa- 3 mbar in 6 min)		X	X	X	
5.4 – Inward leak tightness	for 1a	not applicable (only 464)				
	for 1b	not applicable (only 464)	<i>only with permanently fixed masks</i>			
	for 1b	464 + App A non > 0.05%	<i>only with <u>non</u>-permanently fixed masks</i>			
	1c + 2	Appendix A not > 0.05%			X	X
5.5.1 Visor – Generalities	5.5.2 – 5.5.3 – 5.5.4	no distortion of vision – anti-fog	X		X	X
5.5.2 Distortion of vision	6.2	sign with 4 letters (100x20 mm) from 6 m	X		X	X
5.5.3 Visual field	6.2	satisfactory vision	X		X	X
5.5.4 mechanical strength	6.7	impact with 22 mm 44 g ball from 130 cm	X		X	X
5.6 – Full face mask (+incorporated)	EN 136:1998 class 2/3 – 6.2		X	X		
5.6 – Full face mask, not permanent	penetration EN 463 – 5.2		X	X		
5.7 – Air line connection (only SCBA)		<i>if present</i> then 5.7.1; 5.7.2; 5.7.3	X			
5.7.1 – Air supply hose strength	EN 270:1994 - 7.10 (>1000 N)		X			

<i>Requirement and clause in standard</i>	<i>Standard/clause referenced</i>	<i>Notes</i>	Applicable to:			
			<i>1*</i>	<i>1b</i>	<i>1c</i>	<i>2</i>
5.7.2 – Air supply hose performance		300 l/min at 550 Kpa (5.5 bars)	X			
5.7.3 – Hose crush resistance	EN 270:1994 - 6.11.1	air reduced by no more than 10 %	X			
5.8 – Air supply system	EN 270:1994 - 6.10	Air complying with EN 12021			X	X
5.8.1 – Air supply - Coupling	6.1 and 6.2	No accidental disconn. or interrupt air delivery			X	X
5.8.2 – Air supply - Connections	6.1 and 6.2				X	X
5.8.3 – Air supply – Conn. strength	EN 270:1994 clause 6.11.3	(air reduced by no more than 10 %)			X	X
5.9 – Breathing/ventilation hose		External/Internal SCBA - only External PAPR			X	X
5.9.1 – Ext. SCBA. Connection strength	EN 270:1994 clause 7.7	> 250 N before and after conditioning – elongation not to exceed 20%			X	X
5.9.1.1 – Ext. SCBA Collapse resist.	EN 270:1994 clause 7.9	50 ± 2.5 N - Flow reduced by no more than 5%			X	X
5.9.2 – Int. SCBA. Connection strength	EN 270:1994 clause 7.9	with 50 N before and after conditioning			X	X
5.9.2.1 – Int. SCBA. Collapse resist.	EN 270:1994 clause 7.9	50 ± 2.5 N Flow reduced by no more than 5%			X	X
5.9.3 – Ext. PAPR resist. and connections	EN 270:1994 clause 7.7	>250 N before and after conditioning Only if external breathing apparatus and air used for ventilation		X		
5.10 – Air flow	6.2	It must not cause discomfort to the wearer			X	X
5.10.1 – Continuous flow valve (if	6.2	Easy to use–not less than minimum established by			X	X

present)		manufacturer				
5.11 – Alarm and flow measurement system	sound level req EN 270:94 6.13.3 test EN 270:94 7.12 and 6.1 and 6.2	a system for monitoring minimum flow must be present			X	X
5.12 – Compressed air supply hose	EN 270:1994 clause 6.11	6.11.1 – Bending resist. Air reduction no greater than 10% 6.11.2 – Crushing resistance 1000 N air as above 6.11.3 – Strength of couplings – 1000 N no separation 6.11.4 – 300 mm diam. cylinder 6.11.5 – Heat resistance – if declared- 6.11.6 – Electrostatic properties – if declared- 6.11.7 – Couplings 6.11.8 – Resistance to air pressure – hose and coupl. 30 bars for 15 min			X	X
5.13 – Exhaust assembly (one or more valves)	6.6 (< 100 Pa in 1 min)	with internal pressure of -1Kpa (-10 mbar) air volume 1000 ± 50 ml Three devices tested, 1 of which conditioned according to 5.2	X	X*	X	X
5.14 – Pressure inside suit	6.4	< 400 Pa Type 1b to be tested only if a vent system is present	X	X*	X	X
5.15 – Breathing resistance (if air drawn from inside the suit)	EN 270:1994 clauses 6.15.4.2 and 6:15.4.3				X	X
5.15 – Breathing resistance (if air supplied to whole face mask)	EN 139:1994 clause 6.20				X	X
5.16 – CO ₂ in inhaled air	EN 270:1994 clause 6.16	<1% in mean volume-measured at mouth			X	X
5.17 – Noise associated w/air supply	EN 270:1994 clause 6.17	< 80 dbA At ear level			X	X