

Laboratory	Fire Test & Research Laboratory, V & P.O. Rattangarh, 9th Milestone Sonipat-Gohana Road, SH-11, Sonipat, Haryana		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	Foam Concentrates for producing mechanical foam for Fire Fighting viz. AFFF, Protein Foam , Film Forming Fluoro Protein Foam & Synthetic Foam	Film formation	IS 4989: 2006 Annex-H	Qualitative
		Expansion	IS 4989: 2006 Annex-J	1 to 20
		25% drainage time	IS 4989: 2006 Annex-J	1 sec to 20 minutes
		Fire control	IS 4989: 2006 Annex-K	Qualitative
		Fire Test	IS 4989: 2006 Annex-K 2.2	Qualitative
		Burn Back Test	IS 4989: 2006 Annex-K 2.3	Qualitative
2.	Multipurpose Aqueous Film Forming Foam Liquid Concentrates for Extinguishing Hydrocarbon & Polar Solvent Fires	Seal ability	IS 4989: 2006 Annex-K 2.3	Qualitative
		Film formation test	IS 4989 (Part 4): 2003 E-5, Amendment No.1	Qualitative
		Expansion of foam	IS 4989 (Part 4): 2003 Annex-F	1 to 20
		25% drainage time	IS 4989 (Part 4): 2003 Annex-G	1 sec to 20 minutes
		Fire control time on n-Heptane	IS 4989 (Part 4): 2003 Annex-J	Qualitative
		Fire Extinction time on n-Heptane	IS 4989 (Part 4): 2003 Annex-J	Qualitative
		Burn Back on n-Heptane	IS 4989 (Part 4): 2003 Annex-K	Qualitative
Fire test Performance on Polar Solvent	IS 4989 (Part 4): 2003 Annex-H	Qualitative		

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3.	Aqueous Film Forming Foam (AFFF), Protein (p), Film Forming Fluoro Protein (FFFP), Fluoro Protein (FP) for both hydrocarbon & Polar Fuel group	25% drain time test using 2 GPM nozzle	IS 4989: 2006 UL-162: 1999 (UL-Underwriters Laboratories Inc. UL) Clause-8.2 (8.2.1 to 8.2.7) of UL-162	0.1 minutes to 20 minutes
		Expansion Test using 2 GPM nozzle	IS 4989: 2006 Clause 8.3 UL-162:1999 (UL-Underwriters Laboratories Inc. UL) (8.3.1 to 8.3.2) of UL-162	1 to 20
		Class-B Fire Test- Top Side discharge devices using 2 GPM nozzle	IS 4989: 2006 Clause 10 (10.1.1 to 10.5.6) UL-162:1999 (UL-Underwriters Laboratories Inc. UL)	Qualitative
4.	Dry Chemical Powders Dry Chemical Powders for Fighting B & C Class fires	Free Flowing Characteristics	IS 4308: 2003 Clause 4.10	1 sec to 60 minutes
		Foam Compatibility	IS 4308: 2003 Clause 4.11	Qualitative
		Fire Knocking down for Class B fires	IS 4308: 2003 Clause 4.12.1	Qualitative
5.	Dry Chemical Powders for fighting A,B,C Class fires	Free Flowing Characteristics	IS 14609: 1999 Clause 4.10	1 sec to 60 minutes
		Foam Compatibility	IS 14609: 1999 Clause 4.11	Qualitative
		Fire Knocking down for Class A fires	IS 14609: 1999 Clause 4.12.1	Qualitative
		Fire Knocking down for Class B fires	IS 14609: 1999 Clause 4.12.2	Qualitative

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6.	Fire fighting portable fire extinguishers- Performance and construction	Service Pressure (Ps)	ISO 7165 Clause 3.20 & 9.2.1.1	1 bar to 100 bar
		Maximum service pressure (Pms)	ISO 7165 Clause 3.14	1 bar to 150 bar
		Fill density	ISO 7165 Clause 5.3.1	0.1 kg/L to 2 kg/L
		Filling Tolerance	ISO 7165 Clause 5.3.2	1 % to (±) 25 %
		Test pressure	ISO 7165 Clause 6.1	1 bar to 100 bar
		Minimum Burst pressure	ISO 7165 Clause 6.2	1 bar to 260 bar
		Minimum effective discharge time for Class A rated Extinguishers	ISO 7165 Clause 7.2.1	1 sec to 2 minutes
		Minimum effective discharge time for Class B rated Extinguishers	ISO 7165 Clause 7.2.2	1 sec to 10 minutes
		Bulk Range	ISO 7165 Clause 7.2.3	0.1 mm to 15 m
		Resistance to temperature changes	ISO 7165 Clause 7.3	Ambient to 80 °C & Ambient to (-)30 °C
		Retention of charge following partial discharge	ISO 7165 Clause 7.4.2	0.1 % to 100 %
Long term leakage Test	ISO 7165 Clause 7.4.3	0.1 % to 100 %		
Resistance to Impact (Mechanical resistance)	ISO 7165 Clause 7.5.1	Qualitative		

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	Fire fighting portable fire extinguishers- Performance and construction	Resistance to Vibration's	ISO 7165 Clause 7.5.2	Qualitative
		External Corrosion Test	ISO 7165 Clause 7.6.1	Qualitative
		Internal Corrosion Test for extinguishers using water based media	ISO 7165 Clause 7.6.2	Qualitative
		Tapping Test (powder extinguisher only)	ISO 7165 Clause 7.7	Qualitative
		Intermittent Discharge test	ISO 7165 Clause 7.8	0.1% to 100 %
		Class A Test Fire	ISO 7165 Clause 8.1.1 & 8.3	Qualitative
		Class B Test Fire	ISO 7165 Clause 8.1.2 & 8.4	Qualitative
		Class F Test Fire	ISO 7165 Clause 8.1.5 & 8.7	Qualitative
		Electrical conductivity of extinguisher discharge	ISO 7165 Clause 8.6	220 V to 220 kV
		Construction Requirements of High-Pressure & Low Pressure Extinguishers	ISO 7165 Clause 9.1 & 9.2	Qualitative
		Burst test	ISO 7165 Clause 9.2.2	1 bar to 280 bar
		Crushing Test	ISO 7165 Clause 9.2.3	1 bar to 280 bar
		Permanent volumetric expansion test	ISO 7165 Clause 9.2.4	1 bar to 280 bar
		Welded low carbon steel cylinder	ISO 7165 Clause 9.2.5	0.01 mm to 25 mm

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	Fire fighting portable fire extinguishers- Performance and construction	Stainless steel cylinders	ISO 7165 Clause 9.2.6	0.01 mm to 25 mm
		Aluminium Cylinder	ISO 7165 Clause 9.2.7	0.01 mm to 25 mm
		Carrying handle	ISO 7165 Clause 9.3.1	0.02 mm to 0.5 m
		Requirement of Handle length	ISO 7165 Clause 9.3.2	0.02 mm to 0.5 m
		Requirement of handle clearance	ISO 7165 Clause 9.3.3	0.02 mm to 0.5 m
		Mounting	ISO 7165 Clause 9.4 & 9.4.1	Qualitative
		Requirement of mounting hook	ISO 7165 Clause 9.4.2	Qualitative
		Requirement of mounting bracket	ISO 7165 Clause 9.4.3 & 9.4.4	0.1 kg to 100 kg
		Requirement of strap	ISO 7165 Clause 9.4.5	Qualitative
		Requirement of hanger loop	ISO 7165 Clause 9.4.6	Qualitative
		Caps, valves & Closure	ISO 7165 Clause 9.5.1	Qualitative
		Requirement of threaded connections on cylinder	ISO 7165 Clause 9.5.2	Qualitative
		Requirement of filling opening	ISO 7165 Clause 9.5.3	0.1 mm to 100 mm

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fire fighting portable fire extinguishers- Performance and construction	Requirement of collar	ISO 7165 Clause 9.5.4	0.1 mm to 100 mm
		Requirement of burst test of cap, valve & closure	ISO 7165 Clause 9.5.5	1 bar to 260 bar
		Requirement of edges & surfaces	ISO 7165 Clause 9.5.6	Qualitative
		Safety Devices	ISO 7165 Clause 9.6	1 N to 400 N
		Requirement for plastic component	ISO 7165 Clause 9.8	Qualitative
		Requirement of hose assemblies	ISO 7165 Clause 9.9 & 9.9.1	Qualitative
		Requirement of hose & coupling system	ISO 7165 Clause 9.9.2	Qualitative
		Requirement of burst pressure of hose assemblies	ISO 7165 Clause 9.9.3	1 bar to 260 bar
		Requirement of withstanding hydrostatic pressure of hose assemblies	ISO 7165 Clause 9.9.4	1 bar to 260 bar
		Method of Operation	ISO 7165 Clause 9.10	1 N to 200 N
	Safety -locking device	ISO 7165 Clause 9.11 & 9.11.1	1 N to 200 N	
	Requirement of safety device material	ISO 7165 Clause 9.11.2	Qualitative	

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	Fire fighting portable fire extinguishers- Performance and construction	Requirement of safety-locking pin or other device	ISO 7165 Clause 9.11.3, 9.11.4, 9.11.5 & 9.11.6	Qualitative
		Dip-Tubes & Filters-water based extinguishers	ISO 7165 Clause 9.13	0.02 mm to 150 mm
		Special Requirement for CO ₂ Extinguishers	ISO 7165 Clause 9.14	Qualitative
		Marking & Colour	ISO 7165 Clause 10.1 & 10.2	Qualitative
7.	Wheeled fire Extinguishers	Maximum service pressure (Pms)	IS 16018: 2012 Clause 3.16	1 bar to 150 bar
		Service Pressure (Ps)	IS 16018: 2012 Clause 3.19	1 bar to 150 bar
		Test pressure	IS 16018: 2012 Clause 3.20	1 bar to 150 bar
		Burst pressure	IS 16018: 2012 Clause 3.4	0 to 260 bar
		Fill density	IS 16018: 2012 Clause 5.3	0.1 kg/L to 2 kg/L
		Filling Tolerance	IS 16018: 2012 Clause 5.4	0.1 % to (±)25 %
		Minimum effective discharge time	IS 16018: 2012 Clause 6.2.1	1 sec to 30 minutes
		Minimum effective discharge time for Class A & Class B rated Extinguishers	IS 16018: 2012 Clause 6.2.1.2 & 6.2.1.3	0 to 2 minutes
	Bulk Range	IS 16018: 2012 Clause 6.2.2	0.02 mm to 15 m	

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	Wheeled fire Extinguishers	Resistance to temperature changes	IS 16018: 2012 Clause 6.3	Ambient to 80 °C & Ambient to (-) 30 °C
		Retention of charge following partial discharge	IS 16018: 2012 Clause 6.4	0.1 % to 100 %
		Intermittent Discharge test	IS 16018: 2012 Clause 6.5	0.1 % to 100 %
		External Corrosion Test	IS 16018: 2012 Clause 6.6.1	Qualitative
		Internal Corrosion Test	IS 16018: 2012 Clause 6.6.2	Qualitative
		Electrical Conductivity of extinguisher discharge	IS 16018: 2012 Clause 6.8	220 V to 50 kV
		Class A Test Fire	IS 16018: 2012 Clause 7.1.1 & 7.2	Qualitative
		Class B Test Fire	IS 16018: 2012 Clause 7.1.2 & 7.3	Qualitative
		Service Pressure	IS 16018: 2012 Clause 8.1.1	1 bar to 100 bar
		Construction	IS 16018: 2012 Clause 8.1.2	Qualitative
		Requirement of welding	IS 16018: 2012 Clause 8.1.3	Qualitative
		Construction	IS 16018: 2012 Clause 8.1.4	Qualitative
		Thread of Plastic components	IS 16018: 2012 Clause 8.1.6	1 to 30
		Construction Requirements of High-Pressure Extinguishers	IS 16018: 2012 Clause 8.2	Qualitative
		Burst test	IS 16018: 2012 Clause 8.3.1	1 bar to 280 bar
	Deformation Test	IS 16018: 2012 Clause 8.3.2	1 bar to 280 bar	

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Convenor**

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Program Manager**

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	Wheeled fire Extinguishers	Pressure cycling test	IS 16018: 2012 Clause 8.3.3	1 bar to 280 bar
		Minimum Wall Thickness	IS 16018: 2012 Clause 8.6	0.01 mm to 25 mm
		Caps, valves & Closure	IS 16018: 2012 Clause 8.7.1	Qualitative
		Requirement of threaded connections on cylinder	IS 16018: 2012 Clause 8.7.2	Qualitative
		Requirement of filling opening	IS 16018: 2012 Clause 8.7.3	0.02 mm to 100 mm
		Requirement of collar	IS 16018: 2012 Clause 8.7.4	00.1 mm to 150 mm
		Requirement of burst test of cap, valve & closure	IS 16018: 2012 Clause 8.7.5	1 bar to 260 bar
		Requirement of edges & surfaces	IS 16018: 2012 Clause 8.7.6	Qualitative
		Safety & Anti-overfill devices	IS 16018: 2012 Clause 8.8	Qualitative
		Low Pressure Cylinder	IS 16018: 2012 Clause 8.9.1	Qualitative
		Plastic Component	IS 16018: 2012 Clause 8.10.1	Qualitative
		Discharge Assembly	IS 16018: 2012 Clause 8.11	Qualitative
		Requirement of hose & coupling system	IS 16018: 2012 Clause 8.11.2	Qualitative
		Requirement of burst pressure of hose assemblies	IS 16018: 2012 Clause 8.11.3	1 bar to 260 bar

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	Wheeled fire Extinguishers	Special Requirement for CO ₂ Extinguishers	IS 16018: 2012 Clause 8.13	Qualitative
		Method of Operation	IS 16018: 2012 Clause 8.14	1 N to 200 N
		Safety-locking device	IS 16018: 2012 Clause 8.15	1 N to 200 N
		Requirement of Dip-Tubes & Filters	IS 16018: 2012 Clause 8.17	0 to 10 mm
8.	Portable fire Extinguisher- Performance & Construction- Specification	Service Pressure (Ps)	IS 15683: 2006 Clause 3.5 & 9.2.1.1	1 bar to 100 bar
		Maximum service pressure (Pms)	IS 15683: 2006 Clause 3.6 & 9.2.1.8	1 bar to 260 bar
		Fill density	IS 15683: 2006 Clause 5.3.1	0.1 kg/L to 2 kg/L
		Filling Tolerance	IS 15683: 2006 Clause 5.3.2	0.1 % to (±)25 %
		Test pressure	IS 15683: 2006 Clause 6.1	1 bar to 100 bar
		Minimum Burst pressure	IS 15683: 2006 Clause 6.2	1 bar to 260 bar
		Minimum effective discharge time for Class A rated Extinguishers	IS 15683: 2006 Clause 7.2.1	0.1 sec to 10 minutes
		Minimum effective discharge time for Class B rated Extinguishers	IS 15683: 2006 Clause 7.2.2	0.1 sec to 10 minutes
		Bulk Range Throw	IS 15683: 2006 Clause 7.2.3	0.1 mm to 15 m
		Resistance to temperature changes	IS 15683: 2006 Clause 7.3	Ambient to 80 °C & Ambient to (-)30 °C

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	Portable fire Extinguisher- Performance & Construction- Specification	Retention of charge following partial discharge	IS 15683: 2006 Clause 7.4.2	0.1 % to100 %
		Leakage Test (Type Test)	IS 15683: 2006 Clause 7.4.3	0.1 % to100 %
		Resistance to Impact (Mechanical resistance)	IS 15683: 2006 Clause 7.5.1	Qualitative
		Resistance to Vibration's (Type Test)	IS 15683: 2006 Clause 7.5.2	Qualitative
		External Corrosion Test	IS 15683: 2006 Clause 7.6.1	Qualitative
		Internal Corrosion Test	IS 15683: 2006 Clause 7.6.2	Qualitative
		Tapping Test (Type Test)	IS 15683: 2006 Clause 7.7	Qualitative
		Intermittent Discharge test	IS 15683: 2006 Clause 7.8	0.1 % to100%
		Class A Test Fire	IS 15683: 2006 Clause 8.1.1 & 8.3	Qualitative
		Class B Test Fire	IS 15683: 2006 Clause 8.1.2 & 8.4	Qualitative
		Construction Requirements of High-Pressure Extinguishers	IS 15683: 2006 Clause 9.1	Qualitative
		Electrical conductivity of extinguisher discharge	IS 15683: 2006 Clause 8.6	220 V to 50 kV
		Construction	IS 15683: 2006 Clause 9.2.1.2	Qualitative
		Requirement of welding	IS 15683: 2006 Clause 9.2.1.3	Qualitative
	Construction	IS 15683: 2006 Clause 9.2.1.4	Qualitative	

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	Portable fire Extinguisher- Performance & Construction- Specification	Thread of Plastic components	IS 15683: 2006 Clause 9.2.1.6	1 to 30
		Construction	IS 15683: 2006 Clause 9.2.1.7	Qualitative
		Burst test	IS 15683: 2006 Clause 9.2.2.1, 9.2.2.6	1 bar to 280 bar
		Crushing Test	IS 15683: 2006 Clause 9.2.3	1 bar to 280 bar
		Pressure cycling test	IS 15683: 2006 Clause 9.2.5	1 bar to 280 bar
		Measured thickness of the cylinder	IS 15683: 2006 Clause 9.2.6.3	0.01 mm to 25 mm
		Carrying handle	IS 15683: 2006 Clause 9.3.1	Qualitative
		Requirement of Handle length	IS 15683: 2006 Clause 9.3.2	0.1 mm to 0.5 m
		Requirement of handle clearance	IS 15683: 2006 Clause 9.3	0.1 mm to 0.5 m
		Mounting	IS 15683: 2006 Clause 9.4 & 9.4.1	Qualitative
		Requirement of mounting hook	IS 15683: 2006 Clause 9.4.2	Qualitative
		Requirement of mounting bracket	IS 15683: 2006 Clause 9.4.3 & 9.4.4	1 g to 100 kg
		Requirement of strap	IS 15683: 2006 Clause 9.4.5	Qualitative
		Requirement of hanger loop	IS 15683: 2006 Clause 9.4.6	Qualitative
	Caps, valves & Closure	IS 15683: 2006 Clause 9.5	Qualitative	

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	Portable fire Extinguisher- Performance & Construction- Specification	Requirement of threaded connections on cylinder	IS 15683: 2006 Clause 9.5.2	Qualitative
		Requirement of filling opening	IS 15683: 2006 Clause 9.5.3	0.02 mm to 100 mm
		Requirement of collar	IS 15683: 2006 Clause 9.5.4	0.02 mm to 150 mm
		Requirement of burst test of cap, valve & closure	IS 15683: 2006 Clause 9.5.5	1 bar to 260 bar
		Requirement of edges & surfaces	IS 15683: 2006 Clause 9.5.6	Qualitative
		Requirement of hose assemblies	IS 15683: 2006 Clause 9.9 & 9.9.1	Qualitative
		Requirement of hose & coupling system	IS 15683: 2006 Clause 9.9.2	Qualitative
		Requirement of burst pressure of hose assemblies	IS 15683: 2006 Clause 9.9.3	1 bar to 260 bar
		Requirement of withstanding hydrostatic pressure of hose assemblies	IS 15683: 2006 Clause 9.9.4	1 bar to 260 bar
		Method of Operation	IS 15683: 2006 Clause 9.10	1 N to 200 N
		Safety-locking device	IS 15683: 2006 Clause 9.11 & 9.11.1	1 N to 200 N
		Requirement of safety device material	IS 15683: 2006 Clause 9.11.2	Qualitative

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	Portable fire Extinguisher- Performance & Construction- Specification	Requirement of safety-locking pin or other device	IS 15683: 2006 Clause 9.11.3, 9.11.4, 9.11.5 & 9.11.6	Qualitative
		Requirement of Dip-Tubes & Filters	IS 15683: 2006 Clause 9.13	0.02 mm to 150 mm
		Special Requirement for CO ₂ Extinguishers	IS 15683: 2006 Clause 9.14	Qualitative
9.	Portable fire extinguishers Part-7, Characteristics, Performance measurements & test methods	Maximum pressure at maximum operating temperature	European Standard EN 3-7:2004+A1:2007 Clause 3.15	1 bar to 400 bar
		Control of Discharge	European Standard EN 3-7:2004+A1:2007 Clause 4.2	Qualitative
		Operating Position	European Standard EN 3-7:2004+A1:2007 Clause 4.3	Qualitative
		Hose Assembly	European Standard EN 3-7:2004+A1:2007 Clause 4.4	Qualitative
		Testing of Portable Fire Extinguisher	European Standard EN 3-7:2004+A1:2007 Clause 5	Qualitative
		Nominal Charge	European Standard EN 3-7:2004+A1:2007 Clause 6.1	Qualitative
		Filling Tolerance	European Standard EN 3-7:2004+A1:2007 Clause 6.2	Qualitative
		Design of filling opening	European Standard EN 3-7:2004+A1:2007 Clause 6.3	0.02 mm to 150 mm

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	Portable fire extinguishers Part-7, Characteristics, Performance measurements & test methods	Minimum Fire Rating	European Standard EN 3-7:2004+A1:2007 Clause 6.4	Qualitative
		Duration Of Operation, minimum duration, Spread Measurement	European Standard EN 3-7:2004+A1:2007 Clause 7	Qualitative
		Residual Charge	European Standard EN 3-7:2004+A1:2007 Clause 7.2	Qualitative
		Commencement of Discharge	European Standard EN 3-7:2004+A1:2007 Clause 7.3	Qualitative
		Effective range of Operating Temperature	European Standard EN 3-7:2004+A1:2007 Clause 7.4	Qualitative
		Dielectric Test	European Standard EN 3-7:2004+A1:2007 Clause 9	220 V to 50 kV
		General Requirement	European Standard EN 3-7:2004+A1:2007 Clause 10.1	Qualitative
		Operation & emission control mechanism / devices	European Standard EN 3-7:2004+A1:2007 Clause 10.2	1 N to 400 N
		Safety Device	European Standard EN 3-7:2004+A1:2007 Clause 10.3	1 N to 400 N
		Filter for water based Portable Fire Extinguisher	European Standard EN 3-7:2004+A1:2007 Clause 10.4	Qualitative
		Hose & Coupling System	European Standard EN 3-7:2004+A1:2007 Clause 10.5	1mm to 15 m

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	Portable fire extinguishers Part-7, Characteristics, Performance measurements & test methods	Control Value	European Standard EN 3-7:2004+A1:2007 Clause 10.6	Qualitative
		Pressure Gauge	European Standard EN 3-7:2004+A1:2007 Clause 11	Qualitative
		Horns for Carbon dioxide Portable Fire Extinguishers	European Standard EN 3-7:2004+A1:2007 Clause 12	Qualitative
		Portable Fire Extinguisher Mounting Bracket	European Standard EN 3-7:2004+A1:2007 Clause 13	Qualitative
		Resistance to external corrosion	European Standard EN 3-7:2004+A1:2007 Clause 14.1	Qualitative
		Resistance to extinguishing medium of extinguishers using water based media	European Standard EN 3-7:2004+A1:2007 Clause 14.2	Qualitative
		Fire performance test for Class A fire rating	European Standard EN 3-7:2004+A1:2007 Clause 15.2	Qualitative
		Fire performance test for Class B fire rating & Polar Solvent	European Standard EN 3-7:2004+A1:2007 Clause 15.3	Qualitative
		Class 'F' Fire Rating	European Standard EN 3-7:2004+A1:2007 Clause 15.4	Qualitative
		Color	European Standard EN 3-7:2004+A1:2007 Clause 16.1	Qualitative
	Marking	European Standard EN 3-7:2004+A1:2007 Clause 16.2	Qualitative	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Rating and Fire Testing of Fire Extinguishers	Class A Extinguishers – Wood crib Fire Test	UL-711; 2004 Clause 7.1. & 7.2	Qualitative
		Class B Extinguishers – Flammable Liquid Fire Test	UL-711; 2004 Clause 8.1 & 8.2	Qualitative
		Dielectric test for water based extinguishers	UL-711; 2004 Clause 9.2	220 V to 50 kV
		Class K Extinguishers – Kitchen Fire Test (Vegetable Oil Fire Test)	UL-711; 2004 Clause 11.1 & 11.2	Qualitative
11.	Mobile Fire Extinguishers	Pressure at maximum operating temperature (PTS _{max})	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 3.1	1 bar to 400 bar
		Maximum allowable pressure (PS)	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 3.3	1 bar to 400 bar
		Type of extinguisher	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 5.1	Qualitative
		Components of extinguisher	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 5.2	Qualitative
		Effective range of operating temperatures	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.1	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mobile Fire Extinguishers	Nominal charges	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.2.1	Qualitative
		Filling tolerances	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.2.2	0.1 % to ± 25 %
		Duration of operation	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.3.1	Qualitative
		Maximum residual mass	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.3.2	Qualitative
		Control valve	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.5	Qualitative
		Working position	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.6	1 N to 400 N
		Hose & coupling	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.7	Qualitative
		General	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause. 6.8.1	Qualitative
		Operating & jet control mechanisms devices	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.8.2	1 N to 400 N

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mobile Fire Extinguishers	Safety Devices	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.8.3	1 N to 400 N
		Discharge from water based extinguishers	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.8.4	Qualitative
		Requirements for the scale of pressure gauges	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.5.2	Qualitative
		Operating test of pressure gauges	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.5.3	Qualitative
		Design of filling opening	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.6.1	0.02 mm to 150 mm
		Diameter of the two wheels	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.6.2	1 mm to 400 mm
		Width of the tyres	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.6.2	0.02 mm to 150 mm
		Distance between the handle & the floor	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.6.4	1 mm to 5000 mm
		Socket for the nozzle	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.8.6.5	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mobile Fire Extinguishers	Damage of the hose	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.8.6.6	Qualitative
		Colour	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.9.1	Qualitative
		Marking	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 6.9.2	Qualitative
		Temperature test	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 7.1	Qualitative
		External corrosion test	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 7.2.1	Qualitative
		Internal Corrosion test for water based extinguishers	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 7.2.2	Qualitative
		Dielectric test	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 7.3	220 V to 50 kV
		Class A fire test object	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.1	Qualitative
		Class B fire test object	Deutsche Norm DIN EN 1866-1: 2007(E)-10 Clause 8.2	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
12.	Additional requirement to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar	General	BS EN 3-8:2006 Clause 6.1	Qualitative
		Bodies- minimum wall thickness	BS EN 3-8:2006 Clause 6.2.1	0.01 mm to 25 mm
		Bodies- Requirements for the base	BS EN 3-8:2006 Clause 6.2.2	Qualitative
		Burst test under pressure	BS EN 3-8:2006 Clause 6.3.2	Qualitative
		Mechanical strength test (Crushing test for short bodies)	BS EN 3-8:2006 Clause 6.3.3.3	Qualitative
		Pressure Test (test pressure PT) – Bodies, fittings and assemblies	BS EN 3-8:2006 Clause 6.3.4	Qualitative
		Pressure Test – Pressure gauges and pressure indicators	BS EN 3-8:2006 Clause 6.3.5	Qualitative
		Overfill pressure test	BS EN 3-8:2006 Clause 6.4	Qualitative
		Resistance to Impact	BS EN 3-8:2006 Clause 6.5	Qualitative
		Marking (General)	BS EN 3-8:2006 Clause 9.1	Qualitative
Body	BS EN 3-8:2006 Clause 9.2	Qualitative		
Extinguishers	BS EN 3-8:2006 Clause 9.3	Qualitative		

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