

<b>Laboratory</b>	<b>Advance Fire Tec and Research Lab Private Limited, B-3 Mangolpuri, Industrial Area, Phase – II, New Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>28.03.2014</b>
<b>Certificate Number</b>	<b>T-2900</b>	<b>Valid Until</b>	<b>27.03.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. INDUSTRIAL AND FINE CHEMICALS</b>				
<b>1. Foam Concentrates</b>				
<b>a.</b>	<b>Foam Concentrates for producing mechanical foam for Fire Fighting viz. AFFF, Protein Foam, Film Forming Fluoro Protein Foam &amp; Synthetic Foam</b>	Sedimentation/ Stratification pH Sp. Gravity Miscibility with distilled & synthetic sea water Pour Point Sludge content Surface Tension Interfacial Tension Spreading Co-efficient Viscosity	IS 4989 : 2006 Cl. 3.1 Annexure A Annexure B Annexure C  Annexure D Annexure E Annexure F Annexure F Annexure F IS 1206 (Part 3) : 1978	Qualitative Upto 14.00 Upto 2.00 Qualitative  Upto (-) 30 °C Upto 50 % Upto 80 dyne/cm <sup>2</sup> Upto 80 dyne/cm <sup>2</sup> (-) 10.00 to (+) 10.00 Upto 40 cst
<b>b.</b>	<b>Multipurpose Aqueous Film Forming Foam Liquid Concentrates for Extinguishing Hydrocarbon &amp; Polar Solvent Fires</b>	pH Sp.Gravity Pour Point Surface Tension Interfacial Tension Spreading Co- efficient	IS 4989 (Part 4) : 2003 Annexure A Annexure B Annexure C Annexure D Annexure D Annexure D	Upto 14.00 Upto 2.00 Upto (-) 30 °C Upto 80 dyne/cm <sup>2</sup> Upto 80 dyne/cm <sup>2</sup> (-)10.00 to (+) 10.00

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c.	<b>Aqueous Film Forming Foam (AFFF), Protein (P), Film Forming Fluoroprotein (FFFP), Fluoroprotein (FP), for both hydrocarbon &amp; Polar Fuel Group</b>	Film Forming Test Surface Tension  Interfacial Tension Spreading Coefficient	UL 162 : 1999 Cl. 6 Cl. 6.1 to 6.5  Cl. 6 Cl. 6.1 to 6.5	Qualitative Upto 80 dyne/cm <sup>2</sup>  Upto 80 dyne/cm <sup>2</sup> (-) 10.00 to (+) 10.00
2.	<b>Dry Chemical Powder</b>			
a.	<b>Dry chemical powder for fighting B &amp; C Class fires</b>	Apparent Density Chemical content Particle Size distribution  Hygroscopicity Caking Test Water repellency Moisture Content Heat resistance	IS 4308 : 2003 Cl. 4.2 Annexure D Cl. 4.4  Cl. 4.5 Cl. 4.6 Cl. 4.7 Cl. 4.8 Cl. 4.9	Upto 2.00 Upto 99 % 40 mesh 100 mesh 200 mesh 325 mesh Bottom pan  Upto 10 % Qualitative Upto 10 % Upto 10 % Qualitative

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<b>b.</b>	<b>Dry chemical powder for fighting A B &amp; C Class fires</b>	Apparent Density Chemical content Particle Size distribution	IS 14609 : 1999 Cl. 4.2 Amendment No.2 Cl. 4.4	Upto 2.00 Upto 99 % 100 mesh 200mesh 325 mesh
		Hygroscopicity Caking Test Water repellency Moisture Content Heat resistance	Cl. 4.5 Cl. 4.6 Cl. 4.7 Cl. 4.8 Cl. 4.9	Upto 10 % Qualitative Upto 10 % Upto 10 % Qualitative
<b>3.</b>	<b>Dry Powder for Fighting Fires in Burning metals</b>	Apparent Density Particle size distribution	IS 4861 : 1984 Cl. 2.1 Cl. 2.2	Upto 2.00 75 mesh 125 mesh
		Hygroscopicity & caking Water repellency Heat Test	Cl. 2.3 Cl. 2.4 Cl. 2.6	Qualitative Upto 10 % 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
4.	Fire Extinguishing Dry Chemical for special applications Mechanical Application Density test	Apparent density Water Repellency Test Sieve Test : 140 mesh 200 mesh 270 mesh	IS 14609 : 1999 Annexure A (1) Annexure A (1) Annexure A (1)	Upto 2.00 Upto 50 % Upto 100 %
		Elevated temperature test of Extinguishing agent	Cl. 8.2	Qualitative
		Hygroscopicity test	Cl. 9.3	Qualitative
		Packed chamber test	Cl. 10.2	Upto 100 %

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