

PI: 65840013

APPENDIX-"A"

DRY CHEMICAL POWDER (ABC TYPE) FOR FIRE FIGHTING PURPOSE

CONFIRMING TO IS: 14609-1999, (REAFFIRMED- 2010)

1. Specification of Dry Chemical Powder Mono Ammonium Phosphate based, as per IS-14609-1999 (Reaffirmed-2010), ISI Marked and compatible with all types of foams.

The product should meet the following technical criteria: -

- a) The Dry Chemical Powder shall be Dry Mono Ammonium Phosphate Base Powder with MAP-90 and compatible with all types of foam compound including AFFF.
- b) It must be safe for use on live electrical equipment and must not contain any electrically conductive material. The various materials and additives used to produce the extinguishing powder should be non-toxic.
- c) "Apparent Density" should be 0.75 to 1.10g/ml.
- d) "Moisture content" shall not exceed 0.25%
- e) "Hygroscopicity" (Percentage gain in Mass due to moisture absorption) shall not exceed 1.5%
- f) "Water Repellency" shall not exceed 0.75 gram that 1.5 percent.
- g) "Foam Compatibility" should be all types of foam compound including AFFF cover under IS: 4989 (Part 1,2,3)
- h) "Fire Knock Down" test should pass as specified in IS-14609.
- i) "Free Flowing" test should meet the requirement of IS-14609.
- j) "Heat Resistance" test should meet the requirement of IS-14609.

2. **PACKING:** The powder shall be packed in hermetically sealed moisture proof plastic bags of 10kg /05 kg and every 50 Kg. (either 10 Kg. X 5 bags or 5 Kg. X 10 Bags) shall be packed in HDPE air tight drum to ensure the performance quality throughout the shelf life of power.

ATP CRITERIA:

1. Manufacturer/Suppliers should have the In-House testing facilities of chemical and physical property as per IS: 14609 (Reaffirmed 2010) i.e.

- i) Apparent Density & Caking test
- ii) Hydroscopicity & caking test
- iii) Water Repellency Test

The following performance test will be carried out at the time of inspection, in presence of Inspection team.

- i) Fire Resistance Test
- ii) Foam compatibility
- iii) Fire knocking down properties.

Note:

- Manufacturer should submit BIS/IS validity certificate of the product i.s. DCP Powder, with tender enquiry.
- Manufacturer should submit Laboratory test certificate of above tests mentioned in point-1 at the time of inspection and supply of material.

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