

## **4. Fire Extinguisher Material Test Standards and Approval.**

### **4.1. Acceptable Test Standards and criteria**

**4.1.1.** All the Extinguishers, Extinguishing agents, Materials, Systems, Assemblies, Hose, Pipes, nozzles and fittings, equipment, Products and Accessories, referred to in this chapter shall be Listed, Approved and Registered by the Civil Defence Material Approval Department.

**4.1.2.** There is no year of edition mentioned against any test standards. It is the intent of Civil Defence to convey to the customers seeking laboratory tests and the test laboratories to follow the "LATEST EDITION OF THE TEST STANDARD, AS AND WHEN THEY ARE UPGRADED/REVISED/AMENDED, TO THE DATE."

#### **4.1.3. Portable Extinguisher (General)**

- i. ANSI/UL 711, Standard for Rating and Fire Testing of Fire Extinguishers
- ii. ANSI/NFPA 10, Portable Fire Extinguishers
- iii. CAN/ULC-S508-M90, Standard for Rating and Fire Testing of Fire Extinguishers and Class D Extinguishing Media
- iv. EN 3-7 +A1, EN 3-8, EN 3-9, Portable fire extinguishers. Characteristics, performance requirements and test methods.

#### **4.1.4. Mobile (Wheeled/Trolley) Type Extinguisher**

- i. EN 1866-1, 2, 3. Mobile fire extinguishers Characteristics performance and test methods.

#### **4.1.5. CO2 Extinguisher**

- i. ANSI/UL 154, Standard for Carbon Dioxide Fire Extinguishers;
- ii. CAN/ULC-S503-M90, Standard for Carbon Dioxide Hand and Wheeled Fire Extinguishers.
- iii. EN 1866-1, Standard for Carbon Dioxide Wheeled Fire Extinguishers.
- iv. EN ISO 5923, Equipment for fire protection and fire fighting. Fire extinguishing media. Carbon

#### **6.1.6. Dry Chemical/Dry Powder Extinguisher**

- i. UL 299, Standard for Dry Chemical Fire Extinguishers;
- ii. CAN/ULC-S504-M86, Standard for Dry Chemical and Dry Powder Hand and Wheeled Fire Extinguishers.
- iii. EN 615, Fire protection, fire extinguishing media specifications for powder (other than class D powders)