

## 2.3. General Requirements

2.3.1. The General requirements of Fire Extinguisher shall be as per **Table 4.1.**

**Table 4.1: General Requirements of Fire Extinguishers**

ITEMS	REQUIREMENTS
<b>1. EXTINGUISHER RATING</b>	<p><b><u>AS PER THE TEST LABORATORIES FOLLOWING ARE THE RATING CRITERIA</u></b></p> <ul style="list-style-type: none"> <li>i. <b>Class A</b> Rating. Tested on Wood</li> <li>ii. <b>Class B</b> Rating. Tested on 5.1 cm depth n-heptane fires in square pans.</li> <li>iii. <b>Class C</b> Rating. No fire test. Agent must be a nonconductor of electricity</li> <li>iv. <b>Class D</b> Rating. Special tests on specific combustible metal fires</li> <li>v. <b>Class K</b> Rating. Special tests on cooking appliances using combustible cooking media (vegetable or animal oils and fats)</li> </ul>
<b>2. EXTINGUISHER CLASSIFICATION</b>	<ul style="list-style-type: none"> <li>i. The classification of fire extinguishers shall consist of a letter that indicates the class of fire on which a fire extinguisher has been found to be effective, preceded by a rating number (Class A and Class B only) that indicates the relative extinguishing effectiveness.</li> <li>ii. Fire extinguishers classified for use on Class C, Class D, or Class K hazards shall not be required to have a number preceding the classification letter.</li> <li>iii. <b>Class A:</b> The Fires involving ordinary combustible solid materials such as wood, cloth, paper, rubber, and many other plastics.</li> <li>iv. <b>Class B:</b> The Fires involving flammable liquids, combustible liquids, all petroleum based products, solvents, paints, chemicals and flammable gases.</li> <li>v. <b>Class C:</b> The Fires involving energized electrical equipment due to ignition of electrical nature.</li> <li>vi. <b>Class D:</b> The Fires involving combustible metals, such as magnesium, titanium, zirconium, sodium, lithium, and potassium.</li> <li>vii. <b>Class K:</b> The Fires involving cooking appliances due to combustible cooking media such as vegetable oils and animal fats etc.</li> </ul> <p><b><u>1. LABELING</u></b></p> <ul style="list-style-type: none"> <li>i. An extinguisher labeling for example (UL Listed), <b>"2-A:10-B:C"</b> conveys the following information.               <ul style="list-style-type: none"> <li>a. Extinguisher is capable of extinguishing Class A fire with equivalency of 2.5 gallons of water (Number 1=1.25 Gal of water, number 2=2.5 Gal of water, number 3=3.25 Gal of water etc.)</li> <li>b. Extinguisher is capable of extinguishing class B fire with a capacity of 10 ft<sup>2</sup> of coverage. (Number against B implies square foot coverage of extinguisher for class B fires)</li> <li>c. Extinguisher is also applicable to Class C fires and is non conductive (Usually there are no numbers against C)</li> </ul> </li> </ul>