



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
SAFETY DEPARTMENT MANUAL**



Issue No. 01	Rev. No: 00	Effective Date: 01.11.2010	WI-37(PI-14; AM-7)
Issued By: M.R		Approved By: HOD -SAFETY	
MAINTENANCE OF FIRE EXTINGUISHER			

WI-37(PI-14; AM-7)

Hazards Involved: Struck against, Exposure, Cylinder Fall, Contact with, caught in between

Selection of Personal Protective equipments: Gloves and Disposable mask.

1.0 Scope :

To ensure good working condition of the extinguishers.

2.0 Purpose:

To find out deviation and take corrective action to ensuring good working condition of the Extinguishers

3.0 Procedure:

The following are the different Types of Fire Extinguishers available in Shasun Pharmaceuticals Limited, Cuddalore.

1. Dry Chemical Powder (DCP).
2. Mechanical Foam. (Aqueous Film Forming Foam - AFFF).
3. Carbon –di-Oxide (CO₂).

4.0 Dry Chemical Extinguisher:

- 4.1 Take the extinguisher carefully from its position.
- 4.2 Remove safety Clip, Unscrew the threaded gunmetal cap, remove CO₂ gas cartridge and take the weight.
- 4.3 If the weight of the cartridge is 10% less than the Gross weight, send it for refilling.
- 4.4 Check the Rubber gasket of the inner container.
- 4.5 Transfer the powder in a tray and check for lumps. Discard the powder in case of more lumps.
- 4.6 Check inside the container for caking of powder.
- 4.7 Check the thread condition in gunmetal cap, inner washer and piercing the hole. Don't apply grease or oil
- 4.8 Check the discharge hose condition; squeeze nozzle and side clip. Replace the hose incase of damage,



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- 4.9 Refit the cartridge after weighing and fix the cap.
- 4.10 Fix the safety clip, fix the label and position the extinguisher.
- 4.11 Do the Hydraulic test and painting as per the standard.

5.0 MECHANICAL FOAM (AFFF – AQUEOUS FILM FORMING FOAM):

- 5.1 Take the extinguisher carefully from its position.
- 5.2 Remove safety Clip, Unscrew the threaded gunmetal cap, remove CO₂ gas cartridge and take the weight.
- 5.3 If the weight of the cartridge is 10% less than the Gross weight take it for refilling.
- 5.4 Check the condition of the thread, inner washer, safety hole and piercing pin.
- 5.5 Decant the solution and check for sediments.
- 5.6 Check inside the container for sediments., If sediment is more discard the same.
- 5.7 Check the discharge hose for damage and chock in the nozzle.
- 5.8 Refit the cartridge and fix the cap.
- 5.9 Put the safety clip, label and position the extinguisher.
- 5.10 Do hydraulic test and painting as per standard.

6.0 Carbon-di-Oxide:

- 6.1 Take the extinguisher carefully from its position.
- 6.2 Remove the extinguisher and take the weight. If weight is 10% less than the Gross weight, send for refilling.
- 6.3 Check condition of the safety pin, neck ring and opening and closing of the valve. Check hose, handle and horn condition.



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- 6.4 Check extinguisher handle and wheel in case of trolley.
- 6.5 Check external condition of the extinguisher.
- 6.6 Do hydraulic test as per the standard.
- 6.7 Fix the label and keep it in its position