M28

Class D Powder

Description

M28 is a fire extinguishing, dry powder based on sodium chloride which has been treated with flow and moisture repellent additives. It is suitable for Class D fires, specifically those involving alkali metals such as sodium and potassium. However, it is unsuitable for lithium fires.

Typical physiochemical properties

Appearance	A fine, grey powder
Apparent density	minimum 0.85 kg/cu dm
Tap density (approx)	1.40 – 1.50 kg/cu dm
Moisture sensitivity	Powder must be protected against moisture at all times
Moisture content	Less than 0.25%
Maximum particle size	0.35mm
Corrosion & abrasion effect	Corrosive to steels and metals which are not resistant to chlorides. Not abrasive.
Temperature stability range	-60^{o}C to 55^{o}C

Extinguishing mechanism

M28 extinguishes a metal fire by fusing to form a crust. This excludes oxygen from the surface of the molten metal; a carbonaceous rafting agent prevents the powder from sinking into the surface of molten metal.

Quality control and approvals

Manufacturing process and quality control systems have been approved to BS.EN.ISO 9001 (2000).

Guidance for use

As a guide, the quantity of **M28** powder required will be approximately 3 to 5 kilos per kilo of metal involved, depending on whether it is a shallow or deep pool fire and on the nature of the metal involved.

To prevent splashing of the molten metal, extinguishers should be fitted with a low velocity applicator (available in standard length of 2m). This also provides a degree of operator safety.

Continued overleaf

A Kidde Company

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Packing

M28 is available in 25Kg poly pails but smaller packs can be supplied on a special order basis.

Shipping specification

The following table is intended as a guide for typical sizes of packaging for **M28**.

	Gross Weight (Kgs)	Dimensions (cms)
36 x 25 Kg poly pails	960	100 x 120 x 130

Storage

Kerr powders are formulated not to be affected by long term storage. However, although all powders are stable at low temperatures, there are upper temperature limits for storage which will depend on the chemical nature of the particular powder. As a general guide, temperatures of 50°C should not be exceeded. Powders should be stored in a dry location in original packaging until required for use.

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