Monnex

Class BCE Powder

Description

Monnex powder is based on potassium bicarbonate – urea complex and was developed by ICI in England. It is now manufactured and distributed by Kerr Fire Fighting Chemicals. **Monnex** is recommended for large fires (Class B and C) where superior fire extinguishing qualities and reliable protection is of paramount importance.

For example, when filled in hand appliances, **Monnex** will easily extinguish fires which would otherwise need wheeled units. Similarly, **Monnex** is particularly effective against fire involving alcohols, ketones and esters, which are more difficult for conventional fire fighting agents.

Due to the low density of **Monnex**, it is not normally possible to charge an extinguisher to its normal capacity. A 75% charge by weight is considered average.

Typical physiochemical properties

Appearance	Off white powder
Apparent density	> 0.60 g/ml
Moisture content	Less than 0.25%
Maximum particle size	0.35mm
Corrosion & abrasion effect	Not corrosive or abrasive
Temperature stability range	-60^{o}C to +50^{o}C

Extinguishing mechanism

As with BC powders, **Monnex** interferes with the chemical reactions which occur within the combustion zone. However, the unique property of **Monnex** is that within the combustion zone, the high temperature causes the powder to explode and break into minute particles giving a very large surface area which effects the extinction of the flames.

Monnex is the only powder to possess this unique property.

Quality control and approvals

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

Continued overleaf

Kerr Fire Fighting Chemicals
Ashcroft Road Knowsley Industrial Park Kirkby Liverpool L33 7TS England
Tel +44 (0)151 548 6424 Fax +44 (0)151 548 7263 E-mail kerr.sales@kerr-firefighting.com

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Packaging
Kerr Monnex is supplied in 25 kilo metal drums, stretch wrapped on pallets of 600 kilo. These packages are suitable for containerised shipment.

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.

Shipping specification
The following table is intended as a guide for typical size packaging for **Monnex** powder.

	Gross Weight (kg)	Dimension (cm)
24 x 25 kg drums per 600kg nett	682	102 x 108 x 139

Expected fire ratings obtained using **Monnex** in portable fire extinguishers.

Weight	0.8 Kg	1.5 Kg	2.3 Kg
Tray Size	89 B	144 B	233 B
Fire Area (sqm)	2.80	4.54	7.32
Fuel Load (Ltr)	89	144	233

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