



BC (58% Sodium Bicarbonate)

(Centrimax / Isocomp)

Class BCE Powder

Description

Designed for use against flammable liquid and gas fires, **BC** is powder based on sodium bicarbonate.

BC is a cost effective, economic grade of powder with ratings that will enhance a hand held extinguishers performance (ratings overleaf)..

Typical physiochemical properties

Appearance	A fine, white, free flowing powder
Apparent density	minimum 0.95 kg/cu dm
Sodium Bicarbonate	56 – 60%
Moisture content	Less than 0.25%
Maximum particle size	0.35mm
Corrosion & abrasion effect	Not corrosive or abrasive
Temperature stability range	-60°C to +55°C

Extinguishing mechanism

Sodium bicarbonate powders extinguish flammable liquid fires by interfering with the chemical reactions which are taking place in the combustion zone. These chemical reactions produce 'free radicals' which attach themselves to the surface of the powder particles introduced into the flame zone. This interferes with the chemical reactions forming the flame, thus the flame ceases to exist and the fire is extinguished.

The grinding of the base chemical to obtain a suitable surface area and particle size distribution is critical to the reaction of the particle surface.

Quality control and approvals

Kerr powders are manufactured according to European Standard EN615 (1995). Manufacturing process and quality control systems have been approved to BS.EN.ISO 9001 (2000).

Continued overleaf

Kerr Fire Fighting Chemicals

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Packaging

Kerr powders are available in a range of pack sizes and styles. **BC** powder is packed in individual extinguisher size cartons ranging from 1 kilo to 12 kilo. For bulk filling, they can be supplied in 25 kilo multiwall paper sacks, stretch wrapped on pallets of 1000 kilo. These packages are suitable for containerised shipment.

Powders can also be supplied in 1000 kilo Big Bags to simplify handling and to feed into extinguisher filling machine hoppers. This packaging is also 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 **BC** powder.

	Gross Weight (kg)	Dimension (cm)
25kg multiwall paper sacks per 1000kg nett	1023	100 x 120 x 100
1000kg Big Bag per 1000kg nett	1023	100 x 120 x 100

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

Extinguisher size	6 kg
Tray size	144B
Fire area (sq m)	4.52
Fuel load (litres)	144

Non-warranty

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