

Description

Renex ABC 40 is a general purpose dry chemical powder with a good efficiency and performance in fires of class A, B, C and E (up to 1,000 volts). Renex ABC 40 is a mixture of highly efficient mono-ammonium phosphate and ammonium sulphate ground to selected particle sizes and made resistant to influences of climatic extremes by means of flow promoting and moisture repellent additives.

Typical physiochemical properties

Chemical content	MAP Ammonium sulphate	40% +/- 2% 55% +/- 2%
Bulk density		0.88 +/- 0.07 g/ml
Sieve analysis	>125 micron >63 micron >40 micron	16% +/- 5% 45% +/- 8% 60% +/- 8%
Resistance to caking & lumping		passes
Water repellancy		> 2 hours
Moisture content		Moisture content <0.25%
Temperature stability		-60°C to +60°C

Extinguishing mechanism

In addition to the particle surface extinguishing effect of a Class B powder, Class ABCE powders have low melting/decomposition points in the order of 150°C to 180°C, and when these powders are applied to hot and smouldering surfaces, the particles fuse and swell to form a barrier which excludes oxygen and thereby completes the extinguishing process and prevents re-ignition.

Quality control and approvals

Renex powders are manufactured and tested according to European Standard EN615 (1995).

Packaging

Renex powders are available in a range of pack sizes and styles. Renex ABC 40 powder can be supplied in 25 kilo multiwall paper sacks, PE transparent plastic wrapped on pallets of 1000 kilo. These packages are suitable for containerized shipment. Powders can also be supplied in 1000 kilo Big Bags to simplify handling and to feed into extinguisher filling machine hoppers. This type of packaging is also suitable for containerized shipment.

Storage

Renex 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 ABC 40 powder.

Nett weight (kg)	Gross wt (kg)	Pallet dimation (cm)
40x25kg sacks 1000 kg	1030	110x110x100
1000 kg bags	1025	110x110x100

Performance

Subject to extinguishing quality the minimum expected fire rating obtained using Renex ABC 40 in a 6 kg portable fire extinguisher is 27A / 183B.