



Demsa BC PK - Dry Chemical Extinguishing Powder

1. General Features

Demsa BC PK is an efficient BC type dry chemical extinguishing powder. It is based on potassium bicarbonate. The active ingredient is mixed with additives (hydrophobic ingredients based on silicone) for improving its fluidity and making it resistant to extreme weather conditions. **Demsa BC PK** is AFFF foam compatible.

2. Applications

Demsa BC PK is used in:

Class B (US std.) – Class B/C (EEC std.) fires: Fires whose fuel is flammable or combustible liquid or gas.

Class C (US std.) – Class E (EEC std.) fires: Fires involving potentially energized electrical equipment.

Demsa BC PK is not appropriate for extinguishing metal fires.

It may be used in both, hand portable and wheeled extinguishers, vehicles and fixed systems. The use of nitrogen as propellant is advisable. Compressed air, or carbon dioxide may also be used.

3. Toxicity

Demsa BC PK does not contain harmful ingredients. Under normal conditions of use, it is environmental friendly and non-toxic to humans and animals. Refer to our **Demsa BC PK** Safety Data Sheet for further specifications and regulations.

4. Appearance

Demsa BC PK is a purple, free flowing, hydrophobic powder. Other colors are available upon request.

5. Packing

The most common presentations of **Demsa BC PK** are:

- 20 kg polyethylene bucket (plastic pail)
- 25 kg polyethylene double bag
- 1000 kg bulk big bag

6. Storage

Demsa BC PK is formulated for long term storage; it may last up to ten years without losing its efficiency. However, the powder's integrity depends on the prevalent storage conditions. It is highly recommended to store in temperatures between 4°C to 49°C / 35°F to 120°F (ideal storing temperature is 20°C+- 2°C / 64.4°F to 71.6°F), dry places (60% +- 5% relative humidity),

avoid sudden weather conditions changes, do not stack the pallets, handle the packages with care and maintain the product in its original, tight sealed packaging until use.

7. Physical and Chemical Properties

| SPECIFICATIONS | VALUES |
|---|---------------|
| Particle size analysis, % retained on US Std. sieves: | |
| % -40 +140 (425 - 106 µm) | 2.0 - 5.0 |
| % -140 +200 (106 - 75 µm) | 2.0 - 10.0 |
| % -200 +270 (75 - 53 µm) | 3.0 - 15.0 |
| % -270 (< 53 µm) | 66.0 - 78.0 |
| Water repellency, % | 2.00 max |
| Humidity | 0.25 max |
| Potassium bicarbonate content, % weight | 85.5 - 94.5 % |

8. Quality assurance and approvals

Demsa BC PK is manufactured under ISO 9001:2015 international standard.

Demsa BC PK is produced under UL 711 as recognized component for listed extinguishers and UL 711-P for recharging.

Demsa BC PK meets EN 615 – EEC standards.

Demsa BC PK is certified under IRAM Norm 3566/1998

The information given in this Product Data Sheet is indicative only and does not constitute a guarantee. The manufacture of this product has been carried out under strict control and no risk will be incurred if it is handled and used according to the instructions given. As no control can be exercised over its use, Industrias Químicas Dem S.A. cannot accept responsibility for any damage which may result from its misuse.

Sheet Revision Date: October 10 , 2021 Rev 03