

TECHNICAL DATA SHEET

DINAMITA FAMESA PULVERULENTA (FAMESA POWDERED DYNAMITE)

Generic Name by SUCAMEC: DYNAMITE

DESCRIPTION AND COMPOSITION:

FAMESA POWDERED DYNAMITE is an explosive manufactured with nitroglycerin and is sensitive to Plain Detonator No. 6. It exhibits high blasting power, and its water resistance depends on the specific type of dynamite.

TYPES AND USES:

In order to satisfy the market requirements, FAMESA EXPLOSIVOS S.A.C. offers the following types:

- FAMESA POWDERED DYNAMITE 45 S: For blasting very soft rocks.
- FAMESA POWDERED DYNAMITE 45: For blasting soft rocks.
- FAMESA POWDERED DYNAMITE 65: For blasting intermediate rocks.



This DYNAMITE is used in all types of blasting operations in surface mining, underground mining, and civil works, being successfully employed in soft to intermediate rocks. Due to its low velocity of detonation and good sensitivity, it can be used in controlled blasting where spacers are employed to reduce the charge concentration. It is not recommended for use as a primer for nitro-carbonitrates (ANFO).

The handling temperature range of the FAMESA POWDERED DYNAMITE is from 0°C to 40°C. For different temperatures it is recommended to contact the Technical Assistance area.

TECHNICAL CHARACTERISTICS:

| | UNIT | POWDERED DYNAMITE 45 S | POWDERED DYNAMITE 45 | POWDERED DYNAMITE 65 |
|--------------------------------|-------------------|------------------------------|----------------------------|----------------------------|
| Relative density | g/cm ³ | 1.08 ± 0.1 | 1.09 ± 0.1 | 1.10 ± 0.1 |
| Velocity of Detonation | Confined (*) | 3 700 ± 300 | 5 000 ± 300 | 5 200 ± 300 |
| | Unconfined (**) | 2 000 ± 300 | 3 300 ± 300 | 3 500 ± 300 |
| Detonation pressure | kbar | 37 | 68 | 74 |
| Relative power by weight (***) | % | 50 | 58 | 60 |
| Hess Force | mm | 16 | 18 | 21 |
| Water resistance | --- | Low | Low | Low |
| Fume category | --- | Class 1 | Class 1 | Class 1 |

(*) Velocity of Detonation in a 1 ½ inch diameter iron tube.

(**) Velocity of Detonation as a cartridge with a 7/8-inch diameter.

(***) Relative power referred to Explosive Gelatin (Trauzl) with a conventional power of 100.

The values expressed are results at normal conditions (20°C and 1 atm.)

PACKAGING:
Packing 1.1D

| | BOX MATERIAL | BOX CAPACITY (Pcs.) | NET WEIGHT (Kg) | GROSS WEIGHT (Kg) | OUTER DIMENSIONS (cm) |
|-------------------------|---------------------|----------------------------|------------------------|--------------------------|------------------------------|
| POWDERED 45 S 7/8" x 7" | Cardboard | 336 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 45 7/8" x 7" | Cardboard | 336 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 45 1 1/4" x 8" | Cardboard | 144 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 65 7/8" x 7" | Cardboard | 336 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 65 1" x 7" | Cardboard | 256 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 65 1 1/8" x 7" | Cardboard | 208 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |
| POWDERED 65 1 1/4" x 8" | Cardboard | 132 | 25.0 | 26.8 | 46.0 x 39.7 x 26.8 |

TRANSPORT:

Class : 1
Division : 1.1D
UN No. : 0081


STORAGE AND WARRANTY:

FAMESA POWDERED DYNAMITE should be stored in powder magazines at **temperatures between 0°C and 30°C**, located in safe, well ventilated, dry areas, protected from rain and heat. Also, the explosive inventory should be rotated, avoiding the use of new materials before using old ones. And it must be stored according to the current compatibility table of the relevant authority.

FAMESA POWDERED DYNAMITE, when kept in its original packaging and stored under the previously mentioned temperature conditions, is covered by a **12-month warranty** from the date of production.

WARNING:

FAMESA EXPLOSIVOS S.A.C. has safe products, but they may become dangerous elements in inexperienced hands.

The purchaser or user must comply with the applicable regulations during transport, storage and use, as well as train duly all its personnel involved in its loading and handling, providing mechanical aids for loads over 25 kg per person.

FAMESA EXPLOSIVOS S.A.C. assumes no liability for transport, storage and/or improper use their products may experience.

The information and recommendation described in this document do not necessarily cover all product applications nor the different conditions under which it is being used. These are based on the experience, research and tests done by Famesa Explosivos S.A.C., who does not guarantee favorable results nor assume any responsibility, expressed or implied, in relation to the use of these suggestions. This product may be changed without prior notice.