

TECHNICAL DATA SHEET

DINAMITA FAMESA GELATINA (FAMESA GELATIN DYNAMITE)

Generic Name by SUCAMEC: DYNAMITE

DESCRIPTION AND COMPOSITION:

FAMESA GELATIN DETONATOR 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.

USES:

It is used for blasting in rocks of medium to very hard hardness in both underground and surface mining, as well as in civil construction works.

This DYNAMITE is used in all types of blasting operations in surface mining, underground mining, and civil works. Due to its high velocity of detonation, it produces effective fragmentation, providing an advantage in the cleaning and hauling of the blasted material.

It is recommended for use as an explosive charge in drag hole blasting with water presence, in initiations, in fronts of high-hardness terrains, and/or as a primer cartridge to activate explosive nitro-carbonitrates columns (ANFO) in small to intermediate boreholes.

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


TECHNICAL CHARACTERISTICS:

		UNIT	FAMESA GELATIN DYNAMITE 75	FAMESA GELATIN DYNAMITE 80
Relative density		g/cm ³	1.20 ± 0.1	1.22 ± 0.1
Velocity of Detonation	Confined (*)	m/s	5 700 ± 300	5 800 ± 300
	Unconfined (**)	m/s	4 000 ± 300	4 100 ± 300
Detonation pressure		kbar	97	105
Relative power by weight (***)		%	75	78
Hess Force		mm	23	25
Normal volume of gases		l/kg	860	890
Water resistance		---	Excellent	Excellent
Fume category		---	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)
GELATIN 75 7/8" x 7"	Cardboard	284	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 75 1" x 7"	Cardboard	224	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 75 1 1/8" x 7"	Cardboard	188	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 75 1" x 8"	Cardboard	196	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 75 1 1/8" x 8"	Cardboard	168	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 75 1 1/4" x 8"	Cardboard	132	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 80 7/8" x 7"	Cardboard	284	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 80 1" x 7"	Cardboard	224	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 80 1 1/8" x 7"	Cardboard	186	25.0	26.8	46.0 x 39.7 x 26.8
GELATIN 80 1 1/4" x 8"	Cardboard	128	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 GELATIN 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 GELATIN 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.