

**TECHNICAL DATA SHEET**

# DINAMITA FAMESA SEMIGELATINA

## (FAMESA SEMIGELATIN DYNAMITE)

Generic Name by SUCAMEC: DYNAMITE

**DESCRIPTION AND COMPOSITION:**

FAMESA SEMIGELATIN 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 SEMIGELATIN DYNAMITE 45.
- FAMESA SEMIGELATIN DYNAMITE 65.
- FAMESA SEMIGELATIN DYNAMITE 80.

This DYNAMITE is used in all types of blasting operations in surface mining, underground mining, and civil works, being successfully employed in rocks with intermediate to hard hardness, providing good results in terms of fragmentation.

It can be used as initiators for columns of nitro-carbonitrates (ANFO) in small to intermediate diameter boreholes.

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


**TECHNICAL CHARACTERISTICS:**

		UNIT	SEMIGELATIN DYNAMITE 45	SEMIGELATIN DYNAMITE 65	SEMIGELATIN DYNAMITE 80
Relative density		g/cm <sup>3</sup>	1.12 ± 0.1	1.14 ± 0.1	1.16 ± 0.1
Velocity of Detonation	Confined (*)	m/s	5 200 ± 300	5 400 ± 300	5 600 ± 300
	Unconfined (**)	m/s	3 500 ± 300	3 700 ± 300	3 900 ± 300
Detonation pressure		kbar	76	83	91
Relative power by weight (***)		%	65	70	75
Hess Force		mm	22	22	23
Normal volume of gases		l/kg	880	910	920
Water resistance		---	Good	Good	Good
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)
SEMIGELATIN 45 7/8" x 7"	Cardboard	316	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 45 1" x 7"	Cardboard	244	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 45 1" x 8"	Cardboard	212	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 65 7/8" x 7"	Cardboard	312	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 65 1" x 7"	Cardboard	240	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 65 1" x 8"	Cardboard	208	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 80 7/8" x 7"	Cardboard	296	25.0	26.8	46.0 x 39.7 x 26.8
SEMIGELATIN 80 1" x 7"	Cardboard	228	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 SEMIGELATIN 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 SEMIGELATIN 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.