

**TECHNICAL DATA SHEET**

# PRIMER

**Generic Name by SUCAMEC:** SEISMIC EXPLOSIVE

**DESCRIPTION AND COMPOSITION:**

FAMESA EXPLOSIVOS S.A.C. manufactures high explosive seismic charges packaged in plastic containers, widely used in seismic exploration both domestically and internationally.

The charge is composed of a mixture of TNT and PETN called pentolite, which exhibits high performance and energy when initiated by a Seismographic Detonator (Fulmelec). The plastic containers are specially designed to ensure their hermeticity and allow their assembly as column charges, ensuring complete initiation even under the most severe conditions of use.

Additionally, FAMESA EXPLOSIVOS S.A.C. manufactures and supplies plastic accessories for the proper use of seismic explosives, such as shields to securely fasten Fulmelec, tips, and anchors for the introduction and securing of the column in wells.


**TYPES AND USES:**

In order to satisfy the requirements of the seismic prospecting job, FAMESA EXPLOSIVOS S.A.C. offers the following types:

- MINI PRIMER 150
- MINI PRIMER 200
- PRIMER 300
- MAXI PRIMER 500
- MAXI PRIMER 1000
- MAXI PRIMER 3L

For proper initiation and operation, it is essential to follow the assembly recommendations for the Detonator within the explosive. The Detonator is affixed to the individual charge or the upper charge of an assembled column using the upper shield. For assembled column charges, it is advisable to use a second Detonator, requiring an intermediate shield. Furthermore, at the lower end of the column, the tip-anchor set should be placed for better fixation at the bottom of the drill.

FAMESA EXPLOSIVOS S.A.C. also manufactures seismic charges with a double detonator port on the upper cap, allowing the use of two Detonators, either for individual charges or in columns, without the need for an intermediate shield. Both types are used in seismic prospecting, where they serve as powerful initiators for explosive charges at depth. For this purpose, they are designed with high resistance to hydrostatic pressure, thus satisfying the most severe conditions of use.

The handling temperature range of the PRIMER is from 0°C up to 60°C. For different temperatures it is recommended to contact the Technical Assistance area.

**TECHNICAL CHARACTERISTICS:**

	UNIT	MINI PRIMER 150	MINI PRIMER 200	PRIMER 300	MAXI PRIMER 500	MAXI PRIMER 1000	MAXI PRIMER 3L
Package color	---	Orange	Orange	Orange	Orange	Orange	Orange
Explosive	---	Pentolite	Pentolite	Pentolite	Pentolite	Pentolite	Pentolite
Unit weight	g	150	200	300	500	1000	1350
Diameter	mm	31.7	31.7	54.5	54.5	54.5	54.5

Length	mm	143	185	125	185	315	440
Density	g/cm <sup>3</sup>	1.6	1.6	1.6	1.6	1.6	1.6
Resistance to hydrostatic pressure for 2 hours	kg/cm <sup>2</sup>	7.0	7.0	7.0	7.0	7.0	7.0
	lb/plg <sup>2</sup>	100	100	100	100	100	100
Water resistance	---	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Velocity of Detonation	m/s	7 300	7 300	7 300	7 300	7 300	7 300
Detonation pressure	kbar	213	213	213	213	213	213
Sensitivity to primer	---	No. 8 SSS	No. 8 SSS	No. 8 SSS	No. 8 SSS	No. 8 SSS	No. 8 SSS
Impact sensitivity of the AKM rifle bullet	---	No	No	No	No	No	No
Packaging material	---	High Density Polyethylene	High Density Polyethylene	High Density Polyethylene	High Density Polyethylene	High Density Polyethylene	High Density Polyethylene

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)
MINI PRIMER 150	Cardboard	150	22.3	23.3	43.8 x 30.8 x 19.0
MINI PRIMER 200	Cardboard	100	20.4	20.9	39.6 x 34.1 x 17.7
PRIMER 300	Cardboard	50	17.0	17.5	30.4 x 30.4 x 28.4
MAXI PRIMER 500	Cardboard	40	21.2	22.2	46.8 x 30.3 x 20.0
MAXI PRIMER 1000	Cardboard	20	20.9	21.9	33.3 x 31.3 x 21.8
MAXI PRIMER 3L	Cardboard	15	20.0	21.1	46.5 x 31.3 x 18.0

## TRANSPORT:

Class : 1  
Division : 1.1D  
UN No. : 0042



## STORAGE AND WARRANTY:

PRIMER should be stored in 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.

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PRIMER kept in its original packaging and stored in the above-mentioned temperature conditions is **guaranteed for 36 months** after its production date.

**WARNING:**

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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.