

TECHNICAL DATA SHEET

FULMELEC SISMOGRÁFICO (SEISMOGRAPHIC FULMELEC)

Generic Name by SUCAMEC: ELECTRIC - ELECTRONIC DETONATOR

DESCRIPTION AND COMPOSITION:

SEISMOGRAPHIC FULMELEC consists of an aluminum capsule containing an internal secondary charge with a shattering characteristic and a primary charge sensitive to an electrical droplet, which is attached to the electrical power conductors.

SEISMOGRAPHIC FULMELEC is initiated only by electric current, transmitted through the conductors to initiate the primary charge.

TYPES AND USES:

In order to satisfy the needs of the national and international seismic prospecting market, FAMESA EXPLOSIVOS S.A.C. has the following types:

- SENSITIVE SEISMOGRAPHIC FULMELEC (A.N.)
- INSENSITIVE SEISMOGRAPHIC FULMELEC (A.S.A.).

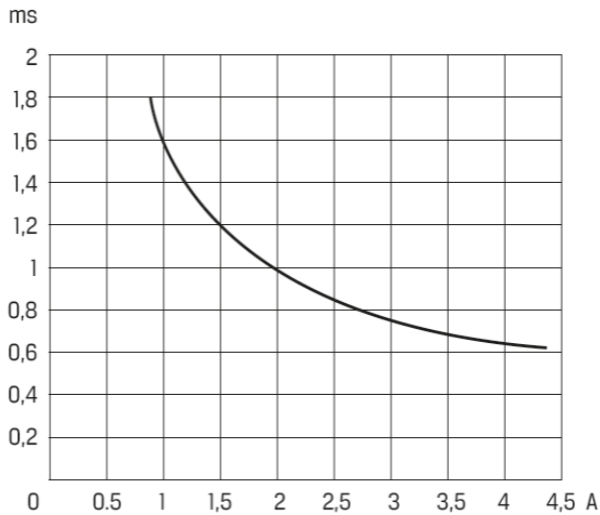
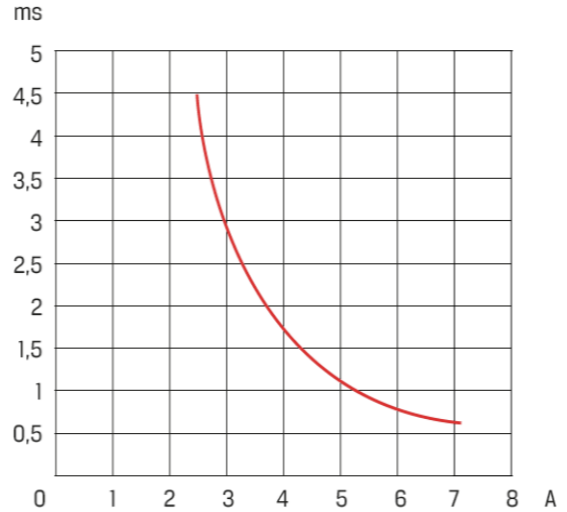
Both types are used in seismic prospecting, where they serve as powerful initiators for explosive charges at depth. For this purpose, they are designed with high resistance to hydrostatic pressure, thus satisfying the most severe conditions of use.

The handling temperature range of the SEISMOGRAPHIC FULMELEC is from 0°C up to 35°C. For different temperatures it is recommended to contact the Technical Assistance area.


TECHNICAL CHARACTERISTICS:

	UNIT	SENSITIVE SEISMOGRAPHIC FULMELEC (A.N.)	INSENSITIVE SEISMOGRAPHIC FULMELEC (A.S.A.)
Reel color	---	Black	Red
Wire Color	---	Yellow - Yellow	White - White
Casing diameter	mm	6.3	6.3
Esopo Test, Drilling Diameter	mm	Min. 10.0	Min. 10.0
Trauzl Volume	cm ³	Min. 28.0	Min. 28.0
Impact resistance of the Detonator 2 kg/1m	---	It does not detonate	It does not detonate
Electrical resistance of the wire	ohm/m	0.053	0.053
Initiation minimum current less than 1 ms	A	2	5
Resistance to hydrostatic pressure for 2 hours	kg/cm ²	7.0	7.0
	lb/plg ²	100	100
Electrical resistance of the droplet	ohm	1.5	0.5
Ignition impulse	mWs/ohm	3	16

Protection against erratic currents	A	0.18	0.45
Firing current for 5 Detonators connected in series with a reaction time of less than 1 millisecond	A	2	5

TIME vs FIRING CURRENT CURVE
SEISMOGRAPHIC ELECTRIC DETONATOR A.N.

SEISMOGRAPHIC ELECTRIC DETONATOR A.S.A.

PACKAGING:

The product comes in two presentations:

- In loops, for lengths less than 6 m.
- On reels, for lengths greater than 6 m.

Packaging 1.1 LOOP

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FULMELEC SSS 4.0 m	Cardboard	500	19.5	20.5	44.3 x 41.8 x 26.0
FULMELEC SSS 6.0 m	Cardboard	400	22.0	23.0	44.3 x 41.8 x 26.0

Packing 1.4S (*) REEL

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FULMELEC SSS 15,0 m	Cardboard	75	14.10	17.10	39.3 x 39.3 x 21.9
FULMELEC SSS 20,0 m	Cardboard	75	17.25	20.85	39.3 x 39.3 x 21.9
FULMELEC SSS 30,0 m	Cardboard	75	24.75	28.35	39.3 x 39.3 x 21.9

(*) DOT approved packaging (EX2013090377).

TRANSPORT:

Class : 1
Division : 1.1B
UN No. : 0360



Class : 1
Division : 1.4S
UN No. : 0456



STORAGE AND WARRANTY:

SEISMOGRAPHIC FULMELEC should be stored in magazines at **temperatures between 5°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.

SEISMOGRAPHIC FULMELEC, 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.