

TECHNICAL DATA SHEET

FULMELEC SSS (HR-e)

Generic Name by SUCAMEC: ELECTRIC - ELECTRONIC DETONATOR

DESCRIPTION AND COMPOSITION:

FULMELEC SS (HR-e) is a high electric resistance seismographic electric detonator, developed as an accessory for seismic survey.

FULMELEC SS (HR-e) 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 an electronic board and the power conductors.

FULMELEC SSS (HR-e) is characterized by its increased insensitivity to electrical current, thanks to an internal electronic circuit. This is why initiation occurs by surpassing a voltage threshold.

USES:

FULMELEC SSS (HR-e) is used in seismic prospecting as an effective and safe initiator of explosive depth charges and for this purpose it is provided with a high resistance to hydrostatic pressure, thus satisfying the most severe conditions of use.

The handling temperature range of the FULMELEC SSS (HR-e) is from 0°C to 35°C. For different temperatures it is recommended to contact the Technical Assistance area.


TECHNICAL CHARACTERISTICS:

	UNIT	FULMELEC SSS (HR-e)
Wire Color	---	Blue – Blue
Electrical wire	---	2 x 22 AWG
Detonator diameter	mm	7.3
Detonator length	mm	92
Esopo Test, Drilling Diameter	mm	Min. 11
Trauzl Volume	cm ³	Min. 34
Impact resistance of the Detonator 2 kg/1m	---	It does not detonate
Resistance to hydrostatic pressure for 2 hours	kg/cm ²	7
	lb/plg ²	100
	atm	6.77
Electrical resistance of the wire	ohm/m	0.053
Maximum wire reaction time	ms	0.5
Electrical resistance	kohm	47 ± 2%
Minimum initiation voltage with a 100 µF capacitor	V	250
Detonation energy at 100% with a 100 µF capacitor	J	3.125
Insensitivity to voltage up to 180 VDC and 127 VAC	---	It does not detonate

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

PACKAGING:
Packaging 1.4B (*) LOOPS

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FULMELEC SSS (HR-e) 5 m	Cardboard	200	9.88	17.0	66.5 x 33.5 x 32.5
FULMELEC SSS (HR-e) 6 m	Cardboard	200	11.85	19.0	66.5 x 33.5 x 32.5

Packing 1.4S () REELS**

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FULMELEC SSS (HR-e) 16 m	Cardboard	75	14.9	18.4	43.0 x 43.0 x 37.0

(*) DOT approved packaging (EX2013090375).

(**) DOT approved packaging (EX2013090376).

TRANSPORT:

Class : 1
Division : 1.4B
UN No. : 0255



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


STORAGE AND WARRANTY:

FULMELEC SSS (HR-e) 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.

FULMELEC SSS (HR-e), 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.