

TECHNICAL DATA SHEET

FANEL LSEF

Generic Name by SUCAMEC: NON-ELECTRIC DETONATOR

DESCRIPTION AND COMPOSITION:

The FANEL LSEF is an accessory designed for distance initiation.

It is made of the following components:

- **Detonator:** It consists of a instantaneous Detonator No. 6 that contains a very sensitive primary explosive and a secondary one of high explosive power.
- **Fanel Shock Tube:** Manufactured with high mechanical resistance thermoplastic materials, and uniformly coated inside with a reactive substance that when activated carries a shock wave, with the enough pressure and temperature as to initiate the Detonator. One of its ends is ultrasonically sealed and the other end is assembled to the Detonator.
- **Label:** It has a bar code that allows the traceability of the product.
- **Bunch Block plastic connector:** It is a plastic block specially designed to facilitate the connection and ensure contact of up to 4 Fanel Shock Tubes or one line of Detonating Cord.


USES:

The FANEL LSEF is used to safely and silently initiate primary and secondary firing from a distance previously established by the blasting manager.

The FANEL LSEF SILENT IGNITION LINE is presented in reels to facilitate its handling during the laying in the work sites.

The handling temperature range of the FANEL LSEF is from -10°C up to 35°C. For different temperatures it is recommended to contact the Technical Assistance area.

TECHNICAL CHARACTERISTICS:

- **DETONATOR**

	UNIT	FANEL LSEF
Diameter	mm	7.3
Length	mm	60
Esopo Test, Drilling Diameter	mm	Min. 9.0
Trauzl Volume	cm ³	Min. 15.0
Resistance to Impact 2 kg/1m	---	It does not detonate

- FANEL SHOCK TUBE**

	UNIT	FANEL LSEF
Material	---	Flexible and great mechanical resistance thermoplastic
Diameter	mm	3.0 ± 0.2
Length	m	100 / 200 / 400 / 500 / 700 / 1000
Color	---	Yellow
Wave Velocity	m/s	2 000 ± 200

- LABEL**

	UNIT	FANEL LSEF
Material	---	Plastic
Font color	---	Black
Background color	---	White

- “MUSHROOM-TYPE” PLASTIC CONNECTOR**

		FANEL LSEF
Material	---	Plastic
Plastic Block Color	---	Lead

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

PACKAGING:
Packaging 1.1B

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FANEL LSEF 100 m	Cardboard	16	3.50	4.50	56.0 x 30.5 x 18.0
FANEL LSEF 700 m	Cardboard	1	5.02	5.80	56.0 x 30.5 x 18.0

Packaging 1.4B (*)

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FANEL LSEF 200 m	Cardboard	4	5.9	6.9	45.0 x 45.0 x 20.0
FANEL LSEF 400 m	Cardboard	4	10.4	11.4	45.0 x 45.0 x 20.0
FANEL LSEF 500 m	Cardboard	4	12.9	13.9	45.0 x 45.0 x 20.0

(*) DOT approved packaging (EX2004120001).

TRANSPORT:

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



Class : 1
Division : 1.4S
UN No. : 0500

**STORAGE AND WARRANTY:**

FANEL LSEF 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.

FANEL LSEF kept in its original packaging and stored in the above mentioned temperature conditions has a **warranty period of 12 months** after its production date.

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.