

**TECHNICAL DATA SHEET**

# FANEL PYRO

Generic Name by SUCAMEC: NON-ELECTRIC DETONATOR

**DESCRIPTION AND COMPOSITION:**

FANEL PYRO is an effective initiation system for being used in underground mining, surface mining and civil work, which offers synchronization benefits without risk, by removing any possibility of wrong connections.

It is made of the following components:

- **Delay Detonator:** It is a Detonator No. 12 containing a very sensitive primary explosive, a secondary high explosive one and a delay element based on its serial number, which allows it to be detonated at different time intervals.
- **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 Delay Detonator.  
One of its ends is ultrasonically sealed and the other end is assembled to the Delay Detonator.
- **Label:** Indicates the serial number and the delay time in milliseconds or seconds. Additionally, we have a bar code that allows the traceability of the product.
- **"J" type plastic connector:** This is a plastic block, specially designed for facilitating connection and ensuring contact between the Fanel Shock Tube and the Detonating Cord.


**USES:**

FANEL PYRO is a blasting accessory with improved traction and abrasion characteristics for the Fanel Shock Tube, making it suitable for all surface mining, underground mining and civil work applications; reaching high efficiency, safety and increased productivity.

The handling temperature range of the FANEL PYRO is from 5°C up to 75°C. For different temperatures it is recommended to contact the Technical Assistance area.

**TECHNICAL CHARACTERISTICS:**

- **DELAY DETONATOR**

	UNIT	FANEL PYRO
Diameter	mm	7.3
Length	mm	60 / 68 / 88 / 92
Esopo Test, Drilling Diameter	mm	Min. 11.0
Trauzl Volume	cm <sup>3</sup>	Min. 34.0
Resistance to Impact 2 kg/1m	---	It does not detonate

- **FANEL SHOCK TUBE**

	UNIT	FANEL PYRO
Material	---	Flexible and great mechanical resistance thermoplastic
Diameter	mm	3.3 ± 0.2
Length	m	4.8
Color	---	Orange
Wave Velocity	m/s	2 000 ± 200

- LABEL**

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

- "J" PLASTIC CONNECTOR**

	UNIT	FANEL PYRO
Material	---	Plastic
Color	---	Red

### DELAY TIME SCALE

SERIAL NUMBER	SHORT PERIOD
	DELAY TIME (ms)
1	25
2	50
3	75
4	100
5	125
6	150
7	175
8	200
9	225
10	250
11	300
12	350
13	400
14	450
15	500
16	600
17	700
18	800
19	900
20	1000

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

SERIAL NUMBER	LONG PERIOD
	DELAY TIME (ms)
1	0.5
2	1.0
3	1.5
4	2.0
5	2.5
6	3.0
7	3.5
8	4.0
9	4.5
10	5.0
11	5.6
12	6.2
13	6.8
14	7.4
15	8.0
16	8.6

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

**PACKAGING:**


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**Packaging 1.1B**


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	<b>BOX MATERIAL</b>	<b>BOX CAPACITY (Pcs.)</b>	<b>NET WEIGHT (Kg)</b>	<b>GROSS WEIGHT (Kg)</b>	<b>OUTER DIMENSIONS (cm)</b>
FANEL PYRO 4.8 m	Cardboard	150	5.9	6.7	56.0 x 30.5 x 18.0

**TRANSPORT:**


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


**STORAGE AND WARRANTY:**


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FANEL PYRO 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 PYRO 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:**


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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.