

**TECHNICAL DATA SHEET**

# EMULSAL 3000

**Generic Name by SUCAMEC:** EMULSION OR CARTRIDGE HYDROGEL (EMULSIÓN O HIDROGEL ENCARTUCHADA)

**DESCRIPTION AND COMPOSITION:**

EMULSAL 3000 is an aluminum-free cartridge explosive emulsion in a plastic casing with safety properties, power, water resistance and good blasting gas quality.

**USES:**

Its use is oriented to any type of work: in mining operations and developments, in civil engineering works, in quarries, in dry, wet and flooded drill holes, with an application method similar to the conventional dynamites, where it is required that the explosive does not contain aluminum, being able to work as explosive column or as "primers" of initiation of nitro-carbonitrates columns.

Due to the good quality of the residual gases and to the fact that it does not contain nitroglycerin or aluminum in its composition, it allows personnel to re-enter the work in less time; improving the work cycles, without compromising safety.

The handling temperature range of EMULSAL 3000 is from -8°C to 50°C. For different temperatures it is recommended to contact the Technical Assistance area.


**TECHNICAL CHARACTERISTICS:**

	UNIT	EMULSAL 3000
Relative density	g/cm <sup>3</sup>	1,14 ± 0,1
Velocity of Detonation	Confined (*)	5 700 ± 300
	Unconfined (**)	4 400 ± 300
Detonation Pressure	kbar	93
Energy	kcal/kg	920
Normal Volume of Gases	l/kg	880
Relative Power in Weight (***)	(%)	102
Relative Power in Volume (***)	(%)	142
Sensitivity to Detonator	---	No. 8
Water Resistance	---	Excellent
Smoke Categories	---	Class 1

(\*) Detonation speed in an iron pipe of 1 ½ inches in diameter.

(\*\*) Detonation speed with a 1-inch diameter cartridge.

(\*\*\*) Relative powers referred to ANFO with a conventional power of 100.

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

**PACKAGING:**
**Packing 1.1D**

	<b>BOX MATERIAL</b>	<b>BOX CAPACITY (Pcs.)</b>	<b>NET WEIGHT (kg)</b>	<b>GROSS WEIGHT (kg)</b>	<b>OUTER DIMENSIONS (cm)</b>
EMULSAL 3000 1" x 8"	Cardboard	208	23.0	24.9	46,0 x 39,7 x 26,8
EMULSAL 3000 1 ¼" x 8"	Cardboard	128	23.0	24.9	46,0 x 39,7 x 26,8
EMULSAL 3000 1 ¼" x 16"	Cardboard	62	23.0	24.9	46,0 x 39,7 x 26,8
EMULSAL 3000 1 ¼" x 24"	Cardboard	44	23.0	24.9	66,8 x 29,6 x 25,8
EMULSAL 3000 2" x 8"	Cardboard	49	23.0	24.9	46,0 x 39,7 x 26,8
EMULSAL 3000 2 ½" x 16"	Cardboard	15	22.5	24.4	46,0 x 39,7 x 26,8
EMULSAL 3000 3" x 16"	Cardboard	11	23.0	25.0	46,0 x 39,7 x 26,8
EMULSAL 3000 3 ½" x 16"	Cardboard	9	23.0	24.9	46,0 x 39,7 x 26,8

**TRANSPORT:**

Class : 1  
Division : 1.1D  
UN No. 0241


**STORAGE AND WARRANTY:**

EMULSAL 3000 must be stored in powder 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.

EMULSAL 3000 stored in its original packaging and under the above-mentioned temperature conditions has a **guarantee of 12 months** after its 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 corresponding regulations at the time of transportation, storage and use, as well as duly train all personnel in charge of 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 of its products.

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.