

RiogelTroner®



Uses

Bottom charge in medium-hard rocks blasting.
Nagolita®'s primer.
Column charge in wet boreholes.
Underground blasting.

Recommendations for use

Water resistance and high density: use in wet boreholes.
No using in methane atmosphere.
N° 8 Detonator or Riocord 12 g/m sensitive.

The temperature of use of this product should be in a range of -10° and +60°C. Temperature of use refers to temperature of the explosive paste and not the ambient temperature. For further information consult the Use Recommendations Sheet included inside the boxes or packing of the product and its respective safety data sheet.

RIOGEL TRONER® is a NMMA based explosive watergel and represents the latest developments in the microgel technology. It is manufactured from oxidizer salts, aluminium, water, sensitizer and thickening agents. This product is chemically gassed and crosslinked in order to obtain an appropriate consistency that makes it easier to handle in cartridge format.

RIOGEL TRONER® has a soft but solid consistency due to the addition of crosslinker agents. It is silver coloured due to the content of aluminium. This product is cartridge in flexible plastic sleeves (HDPE of high features) to make it water resistant and hard rock impact proof. The cartridges are placed into cardboard boxes. RIOGEL TRONER® is manufactured in a variety of formats to satisfy the needs of all blasting applications.

RIOGEL TRONER® meet together sensitivity and high energy. Its density allows it to be used in wet boreholes. Due to these reasons, it is an option for the bottom charge of medium-hard rock and for column charge in wet boreholes.

Technical characteristics (Nominal values)

Density	1,25 g/cm ³
Velocity of detonation ¹	5.000 m/s
Energy release ²	3,5 MJ/Kg
(REE - WS) (ANFO=100%) ^{2,3}	108%
(REE - BS) (ANFO=100%) ^{2,3}	169%
Gases volume ²	886 l/kg
Fumes ⁴	Between 2,27 and 4,67 l/100 g

(1) D=65 mm. Det N°8. 5°C. The VOD values can vary with initiation conditions, the confinement and the diameter.

(2) All energy values have been calculated using the code W-DETCOM, developed by MAXAM for its exclusive use. Different values can be obtained using other programmes.

(3) The relative effective energy corresponds to the percentage value which compares the energy explosive available for carrying out effective blast work up to pressure of 100 MPa (minimum fragmentation pressure of most types of rock) with the analogous effective energy of Anfo.

(4) According to European Regulations (EN 13.631-16).

Formats and crates (Nominal values)

Diameter x Length (mm)	Weight/ cartridge (gr)	N° cartridges/ Box	Weight/box (kg)	Type of packing
32 x 250	260	96	25	Plastic film cartridge (HDPE)
40 x 500	781	32	25	Plastic film cartridge (HDPE)
50 x 500	1200	20	24	Plastic film cartridge (HDPE) (AP)
60 x 500	1786	14	25	Plastic film cartridge (HDPE) (AP)
70 x 500	2400	10	24	Plastic film cartridge (HDPE) (AP)
80 x 500	3125	8	25	Plastic film cartridge (HDPE) (AP)
90 x 500	4000	6	24	Plastic film cartridge (HDPE) (AP)
110 x 495	6000	3	18	Plastic film cartridge (HDPE) (AP)

Other formats can be available on customer request.

Storage

To maintain the properties of MAXAM's explosives, we recommend they be stored in authorized deposits, in a cool dry place, with good ventilation.

Stored in suitable conditions, the product may be used up to 24 months after the date of manufacture.

Classification

Explosive for blowing-ups type E

Division: 1.1 D

UN No: 0241