RIOGEL TRONER XE
Extra Energy Cartridge Watergel

DESCRIPTION
RIOGEL TRONER XE is the result of the most advanced developments in watergel technology.

RIOGEL TRONER XE is a high strength, high density cap sensitive watergel. The gel structure gives the product a rubber-like tough consistency and outstanding water resistance.

RIOGEL TRONER XE is manufactured in a variety of cartridge sizes to satisfy the needs of all blasting applications.

APPLICATION
The combination of a very high density and energy gives RIOGEL TRONER XE a very high bulk energy making this product an ideal choice for hard rock blasting in quarries, mining and construction.

RIOGEL TRONER XE can also be used in priming applications, bottom charges, and as a high energy column explosive.

Advantages
- Higher bulk energy than emulsions.
- Good aging, no crystallisation.
- Highly water resistant.
- Wide variety of applications.
- Highest energy available within MAXAM's range of watergels.
- Water and abrasion resistant.

RECOMMENDATIONS FOR USE
Water resistance allows its use in wet boreholes. Do not use in flammable or methane atmospheres. This product is detonator and RIOCORD 12 g/m sensitive. The temperature of this product should be within the range of –10°C and +60°C. For further information consult the Use Recommendations Sheet included inside the boxes or packaging of the product and its respective Material Safety Data Sheet.

SAFETY
USE: RIOGEL TRONER XE should be used, handled and stored with care, ensuring the product is kept away from flames and excessive heat sources.
DISPOSAL: The disposal of explosive material can be dangerous, ensure the appropriate safety measures have been applied according to the instructions on the MSDS.

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.
SAFETY WARNING
Read the Instructions Safety Sheet and the Material Safety Data Sheet provided carefully before using RIOGEL. MAXAM strongly recommends not to use RIOGEL products with detonators and/or initiation systems supplied by other manufacturers in the same blast and declines all liability in these cases.
RIOGEL must be stored at moderate temperatures in a dry and well ventilated place.

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Technical Characteristics

<table>
<thead>
<tr>
<th>Density Range (g/cm³)</th>
<th>1.28</th>
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<tbody>
<tr>
<td>Velocity of Detonation* (m/s)</td>
<td>3000 - 6600</td>
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<tr>
<td>Relative Effective Energy¹ (%)</td>
<td>130</td>
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<tr>
<td>Relative Weight Strength</td>
<td>207</td>
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<tr>
<td>Gas Volume (L)</td>
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</tbody>
</table>

¹) ANFO: Density 0.80 g/cm³, Effective energy 2.59 MJ/kg.
* VOD is dependent on application, diameter, confinement, and density. The maximum value within the range is the Ideal VOD.

Transport Classification

<table>
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<tr>
<th>Class</th>
<th>1.1D</th>
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| UN Number | 0241 |

Contact your local MAXAM representative for further information.

Standard Packaging 1.1D (Nominal values)

<table>
<thead>
<tr>
<th>Diameter x Length (mm)</th>
<th>Cartridge Weight (g)</th>
<th>Cartridges/Box</th>
<th>Weight/box (kg)</th>
<th>Type of Encasing</th>
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<tbody>
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<td>90</td>
<td>25</td>
<td>Plastic film cartridge (HDPE)</td>
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