

TECHNICAL DATA SHEET

MatrEX™ Binary Gel Explosive

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MatrEX™ Binary Gel Explosive is a non-explosive mixture that once combined becomes a powerful and adaptable gelled binary explosive. It is distributed as two non-explosive components, the gel and activator, which eliminates logistical problems encountered in shipping, storing, and transporting commercial high explosive materials.

When mixed, MatrEX™ is a cap sensitive, high explosive, which produces high overpressure, high bulk energy as well as a consistent detonating velocity.

Application:

- Breaching
- Explosive Ordnance Disposal
- IED Defeat
- Excellent Booster/Column Charge
- Oil Wells, Ditching, Trenching
- General Demolition

Key Features:

- Non-detonable until mixed
- Mixes and arms instantly
- Easy to use
- Adaptable
- Non-explosive shipping and storage classification

Properties:

- Relative Effectiveness: 1.2
- Velocity: 6,200 m/s (20,341 ft/s)
- Density: 1.20 g/cc
- Critical Diameter:
 - 3/8" unboosted
 - 1/4" boosted
- High bulk energy
- Low sensitivity to friction and shock.

Operation:

MatrEX™ Binary Gel Explosive is supplied as a two component system. The non-explosive gel and activator are combined to form the high explosive formulation ready for use. MatrEX is sensitive to a standard blasting cap at ambient conditions as well as 50 g/ft (10g/m) detonating cord.

MatrEX is suitable for use in multiple end items such as shaped charges, bulk charges, disruption tools, and common demolition configurations.

VKIS Energetics is able to tailor binary portions and packaging to meet most operational requirements



Gel &
Sensitizer



MatrEX™ Shape
Charge



Post Function