

Technical Data Sheet

NITRA MIX

Description & Application

Nitra-Mix is part of Orissa Bulk Explosive products series delivered through Orissa Bulk Mix Delivery system which is capable of delivering a complete range of bulk explosive to match every blasting need. Energy can be tailored to mine's application by varying density on site. The product is manufactured and delivered with precise control & rates to match mine's productivity.

Nitra-Mix is standard range of bulk emulsion Explosive designed for use in dry, wet, and dewatered blast hole applications.

Nitra-Mix can be used in Surface Blasting Operations.

Key Benefits

- Reliability across the whole range of applications.
- Integrated product and delivery systems ensuring accuracy, productivity and dependability of supply.
- Nitra-Mix can be loaded at varying energies and densities to optimize blast results and improve mine productivity.
- Nitra-Mix provides fully coupled explosive charges to maximize blasting outcomes.
- Low post detonation fumes.
- Excellent water resistance.
- Easy handling and loading of hole.
- Saves valuable time and manpower.
- Enhanced safety against impact and friction.
- Product made to suit strata.
- Better Safety and Security in Transportation.

Recommendations for use

Priming and Initiation

Nitra -Mix is a Non-Cap Sensitive explosive and it can only be initiated using a Primed Cap-Sensitive explosive.

Charging

Pumped directly into the Blast-Hole through Bulk Mix Delivery System

Average In -Hole Density

The average in-hole density of the Nitra-Mix can be varied to match mines blasting application. Density can be tailored from 1.10 to 1.20g/cc according to blasting requirement.

Gassing Time

Allow at least 20 minutes between loading and stemming blast holes.

Sleep Time With in Blast holes

Standard sleep time in normal condition of dry & watery holes is 10 Days, in a standard operating procedure.



Technical Properties

| Product | Nitra Mix |
|-----------------------------|--|
| VOD(m/s) | 4500 ±500 |
| Density(g/cc) | 1.15±0.05 |
| Sensitivity | Booster sensitive - 100Grams Cast Booster |
| RWS | 83% |
| RBS | 120% |
| Energy (kcal/kg) | 860 |
| Viscosity (Brook field) | More than 39000 CPS |
| Water Resistance | Excellent |
| Application | Suitable for large Open-Cast mines operations. Charging is done from bottom to ensure water displacement. |

Hot and Reactive Ground

- Not suitable for reactive ground.
- Suitable for using round temperature sup to 65°C.
- In case application requires to operate outside this temperature range, please contact your Orissa representative

Safety:

Nitra-Mix is relatively insensitive to accidental initiation by shock, friction, or mechanical impact under normal conditions of use. Detonation may occur from heavy impact or excessive heating particularly under conditions of confinement

Disposal:

Explosives materials is dangerous and require special training, Methods used for safe disposal may vary from case and will depend upon conditions under which the operations take place. For further information please contact Orissa reprehensive

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