

Technical Data Sheet



BHARAT SHAKTI



Description & Application

Bharat-Shakti is part of Navbharat Bulk Explosive products series delivered through Navbharat 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.

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

Bharat-Shakti 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.
- Bharat-Shakti can be loaded at varying energies and densities to optimize blast results and improve mine productivity.
- Bharat-Shakti 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.

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Technical Properties

Product	Bharat Shakti
VOD(m/s)	4500 ±500
Density(g/cc)	1.15±0.05
Sensitivity	Booster sensitive - 100Grams Cast Booster
RWS	87%
RBS	121%
Energy (Kcal/Kg)	860
Viscosity (Brookfield)	More than 40000 CPS
Water Resistance	Excellent
APPLICATION	Suitable for large Open-Cast mines operations. Charging is done from bottom to ensure water displacement.

Recommendations for use

Priming and Initiation

Bharat-Shakti 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 Bharat-Shakti 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.

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 Navbharat representative

Safety:

Bharat-Shakti 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 Navbharat representative