



**JOGNIYA EXPLOSIVES PRIVATE LIMITED**  
**KANGANI, BHILWARA, RAJASTHAN**  
**TECHNICAL DATA SHEET**

## TIGER COLUMN

### Description & Application :

Tiger Column is a high strength Non-Cap sensitive packaged slurry explosive suitable for use in most types of blasting applications using small, medium and large diameter holes and represent the latest development in slurry explosives technology.

The product is chemically gassed and then cross-linked and is specially designed for blasts in open cast mines, quarries and construction. Superior rigid gel also ensures good handling.

Its high strength and high velocity of detonation ensures good fragmentation in hard strata and give excellent blast results in quarrying, road cutting, canal excavation and civil construction.

Product is relatively insensitive to accidental initiation due to impact, friction and fire. Hence it is very safe during handling, transportation, storage and usage.

Excellent water resistance allows usage in watery holes. Product has excellent fume characteristics post detonation.

Nominal Density (g/cc)	1.20 – 0.05
Relative Weight Strength*	76%
Relative Bulk Strength*	102 %
Minimum Velocity of Detonation (m/Sec)	3500

\*Compared to ANFO@ 0.85 g/cc

### Notes :

1. REE is the Effective Energy relative to ANFO at a density of 0.85g/cc. ANFO has an effective energy of 2.30 MJ/kg.

2. VOD will depend on application including explosive density, blasthole diameter,

temperature and degree of confinement. The minimum VOD quoted is based on unconned test ring data and calculated energy values.

### Recommendations for Use :

- Excellent water resistance and high density allow use in wet blastholes.
- Requires Booster for initiation.
- Suitable for use in ground temperatures up to 65°C.
- During charging ensure that cartridges are charged in a continuous column in the bore hole.
- Post detonation fume characteristics of the product make it suitable for non gassy mine applications, however users should ensure that adequate ventilation is provided prior to re-entry into the blast area.

### Packaging :

Tiger Column is packaged in plastic film/lay flats. Each box contains nominally 25kg of product with standard cartridge sizes and counts as follows:

Diameter	Nominal length	Nominal Mass	Cartridge per Box
83 mm	460. mm	2780 gm	9
125 mm	460 mm	6250 gm	4

### Storage :

For the best results, store under moderate temperatures and dry conditions in a well ventilated, approved magazine.

If stored in cool, dry, well ventilated magazine and handled properly, the shelf life of Tiger prime is 6 Months from the date of Manufacturing. However, exposure to hot or cold extremes may cause the product to deteriorate pre-maturely. Avoid extremes of



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shock, heat, friction or mechanical impact to prevent pre-mature initiation.

All regulations pertaining to the handling and use of such explosives apply.

**Shipping Information :**

Authorised Name of Explosive : TIGER COLUMN

Proper Shipping Name : EXPLOSIVE, BLASTING, TYPE E

Class / Div. : 1.1D

UN No. : 0241

**Disposal :**

The disposal of explosives material is dangerous and require special training. Methods used for safe disposal may vary from case to case and will depend upon conditions under which the operations take place. For further information please contact JEPL representative.

**Product Photograph :**

