



Safety • Quality • Reliability

# Technical Data Sheet

## Superpower Seismic

emulsion explosives



### Description & Application

Superpower Seismic is a robust packaged emulsion explosive, specifically designed for seismic exploration. It is detonator sensitive, has high strength, high velocity of detonation and excellent water resistance.

The explosives are packed in rigid plastic couplable tubes. The rigid plastic cartridges with positive screw coupling give flexibility of charge size at the shot hole.

### Advantages

- Generates consistent and reliable signal strength under varying conditions encountered in Geophysical exploration.
- Shoots reliably upto 30 days at a depth of 60m.
- Excellent water resistance.
- OH&S issues around the handling and storage of nitroglycerine based products are eliminated.

### Technical Properties

Nominal Density (g/cc)	1.20 ± 0.05
Hydrostatic Head	60 m
Sleeping Time	4 Weeks
Nominal Velocity of Detonation (unconfined) (Km/Sec)	5

\*Compared to ANFO@ 0.85 g/cc



### Packaging

Superpower Seismic is packaged in plastic tubes with product name & other details. Each Box contains 25kg of product.

Cartridge		Weight ( kg)	No. of Cartridges. per box
Diameter	Length(mm)		
50	330	0.5	50
50	580	1.0	25
63	225	0.5	50
63	380	1.0	25
63	655	2.0	12
63	810	2.5	10
76	315	1.0	25
76	450	2.0	12
76	625	2.5	10

Other diameter / grams combinations can be offered on request.

### Recommendations for Use

#### Priming and Initiation

The preferred initiation system for Superpower Seismic is a No. 8 or any higher strength Seismic Detonator. A detonator shield must be used with every primed cartridge to ensure firing. Care must be taken to ensure that the detonator is placed at the bottom of the detonator well, which is at the top of the cartridge. The detonator must be fully inserted into the cartridge and its wire half hitched twice around the column of this larger cartridge.

#### Charging

Connect tubes of Superpower Seismic by screwing them together, before they are inserted into the blast holes.



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### Safety

- Avoid extremes of shock, heat, friction or mechanical impact to prevent pre-mature initiation.
- Superpower Seismic should be handled and stored with care.

### Sleep Time within Blastholes

The undamaged product may be charged and fired several months later in dry holes (provided the product remains within its recommended shelf life).

A sleeping time upto 4 weeks is possible in wet holes.



### Storage

Superpower Seismic has a storage life upto 12 months in an approved magazine, even in hot and humid conditions.

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

### Shipping Information :

Authorised Name of Explosive	: SUPERPOWER SEISMIC
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. Please follow local regulations for the same and for any further information please contact Solar representative in your area.

### Disclaimer

Use of these products by anyone who lacks adequate training, experience & supervision may kill or injure. It is expressly understood that any technical advice furnished by SILL with reference to the use of its Products is given gratis & SILL assumes no obligation or liability for the advice given or results obtained, & all such advice being given is accepted at Customer's risk.

SILL makes no warranty of any kind, written or oral, express or implied, except that the Products shall meet SILL's standard specifications for such Products. Customer shall assume all risk and liability for results obtained by the use of such Products whether used singly or in combination with other products. Under no circumstances shall SILL or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.

Any dispute arising out of above information shall be dealt in accordance with the laws of Republic of India and subject to jurisdiction of Courts at Nagpur, India.

\*Images are just for reference and can be changed without any intimations.

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