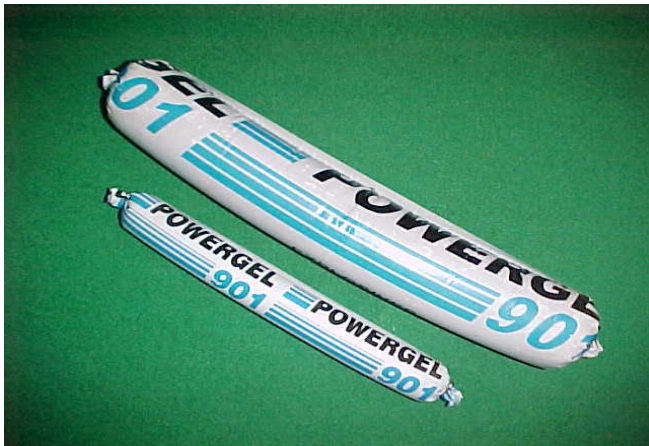


# Powergel™ 901

## Description

Powergel 901 is a high strength, robust detonator sensitive emulsion explosive. The explosive is grey in colour with a firm putty-like consistency. It is packaged in plastic film with wire clips.



## Safety

The post detonation fume characteristics of Powergel 901 make the product suitable for both underground and surface blasting applications. Underground users should ensure that adequate ventilation is provided prior to re-entry into the blast area.

Powergel 901 can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, Powergel 901 should be handled and stored with care. While Powergel 901 does not burn easily, it must be kept clear of flame and excessive heat.

## Application

Powergel 901 is a water resistant packaged explosive designed to deliver high energy. It can be used in both priming applications and as a high density column explosive. Powergel 901 cartridges are packaged in film, which readily splits during tamping to maximize coupling and bulk strength within a blasthole.

The high resistance of Powergel 901 to dynamic desensitization makes it the preferred explosive for use in tunnelling, shaft sinking and other extreme blasting environments.

## Technical Properties

Density	1.15 ± 0.08 g/cc
Relative Effective Energy <sup>1</sup>	
Relative Weight Strength	119%
Relative Bulk Strength	176%
Velocity of Detonation Range <sup>2</sup>	
4000 ± 400 m/s	

1. REE is the Effective Energy relative to ANFO at a density of 0.8 g/cm<sup>3</sup>. Energies quoted are based on ideal detonation calculations with a 100 MPa cut off pressure using IdeX computer code.
2. VOD depends on explosive density, blasthole diameter and degree of confinement. The VOD range is based on measurements in 32 mm diameter cartridges fired in open.

## Recommendations for Use

### Priming and Initiation

The recommended initiator for Powergel 901 is a No 8 strength detonator. Under confinement it can be initiated by 10 g/m detonating cord also.

### Charging

In small diameter blastholes maximum energy per meter of blasthole can be achieved by light tamping the explosive with a wooden rod appropriate to the hole diameter. No metal instrument should be used to tamp explosives. The primer cartridge containing a detonator must not be tamped.

### Packaging

Powergel 801 is packed in 25 kg cardboard boxes. The packaging cases and plastic film on the cartridge are appropriately labeled. Packaging details are as follows:

Diameter (mm)	Cartridge Length (mm)	Cartridge Mass (g)	Cartridge count per Case
25	185	110	227
25	210	125	200
32	235	200	125
40	300	390	64
50	300	625	40

## Disposal

Contact your local IEL sales office for advice.

## Storage And Handling

### Explosive Classification

Authorised Name: Powergel 901  
 Shipping Name: Explosive, Blasting, Type E  
 UN No. 0241  
 Class Code 1.1D

## Powergel™ 901

As per Indian Explosives rules *Powergel* 901 is a class 2 explosive. All regulations concerning the handling and use of such explosives apply.

### Storage

Store *Powergel* 901 cases in a suitably licensed magazine for Class 2 explosives.

*Powergel* 901 has a shelf life of 6 months when stored under reasonable climatic conditions.

### Trademarks

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### Indian Explosives Limited

10 A, Lee road  
Kolkata 700020  
India

Phone: +91 33 2287 3056  
Fax: +91 33 2289 2973

[www.oricaminingservices.com](http://www.oricaminingservices.com)