

SUPERPOWER 80, 90 & GOLD

Emulsion Packaged Explosives
Safety • Quality • Reliability



Description

A robust, medium to high strength, detonator sensitive explosive. They are water-resistant and designed for priming applications with a very high-density column explosive. The explosives are a general-purpose product in the very medium to high energy range, and the median to high detonation velocity and robust nature of them makes the product ideal for primers to initiate ANFO columns.

Application

All Applications (Underground, Open Pit, Quarry and Construction)

Appearance

An off white colour, with a firm putty-like consistency, packaged in a white plastic film.

Features

- Delivers excellent fragmentation and dig ability
- Reduced Post-blast fumes resulting in improved turnaround times
- Reduces the potential of sulphide dust explosions
- Excellent water resistance
- Suitable for use in Temperatures between 0 and 55 °C.
- Strong, flexible, lightweight and easy to use

Storage

Store under moderate temperatures and dry conditions in well ventilated approved explosives storage facility/box or approved licenced magazine.

Shelf life

Maximum shelf life of product is 12 months from date of manufacture, dependant on storage conditions.

Shipping Information

Class / Division	1.1
Group	D
UN No.	0241

SUPERPOWER RANGE

SUPERPOWER 80						
Diameter (mm)	Nominal length (mm)	Nominal mass (gm)	Cartridge count per case	Gross weight (Kg)	Net weight (Kg)	Density (g/cc)
25	300	167	150	26	25	1.14
29	300	223	112	26	25	1.14
32	300	278	90	26	25	1.14
38	300	385	65	26	25	1.14
50	600	1390	18	26	25	1.14
65	600	2272	11	26	25	1.14
80	600	3125	8	26	25	1.14

SUPERPOWER 90						
Diameter (mm)	Nominal length (mm)	Nominal mass (gm)	Cartridge count per case	Gross weight (Kg)	Net weight (Kg)	Density (g/cc)
25	300	167	150	26	25	1.14
29	300	223	112	26	25	1.14
32	300	278	90	26	25	1.14
38	300	385	65	26	25	1.14
50	600	1390	18	26	25	1.14
65	600	2272	11	26	25	1.14
80	600	3125	8	26	25	1.14

SUPERPOWER GOLD						
Diameter (mm)	Nominal length (mm)	Nominal mass (gm)	Cartridge count per case	Gross weight (Kg)	Net weight (Kg)	Density (g/cc)
25	300	167	165	26	25	1.18
29	300	223	112	26	25	1.18
32	300	278	90	26	25	1.18
38	300	385	65	26	25	1.18
50	600	1390	18	26	25	1.18
65	600	2272	11	26	25	1.18
80	600	3125	8	26	25	1.18

Technical Properties

SUPERPOWER RANGE	80	90	GOLD
Nominal density	1.14 g/cc	1.14 g/cc	1.18 g/cc
Relative Weight Strength (RWS)	110%	115%	126%
Relative Bulk Strength	156%	162%	178%
Min Velocity of Detonation (VOD)	< 3500 m/s		
Operating Temperature	0 – 55 degrees C		
Water Resistance	Excellent		
Initiation (25mm hole)	Minimum 8D detonator strength or minimum of 6g detonating cord		

Safety

May react with pyritic materials or other reactive material in ground and create potentially hazardous conditions. The post detonation fumes characteristics make the product suitable for surface and underground blasting applications, however users must ensure prior to re-entry that adequate ventilation is provided. Detonation may occur from shock, friction or mechanical impact. Keep clear of flames or excessive heat.

Disclaimer

All information contained on this case is accurate and up to date. Solar Mining Services cannot anticipate or control the circumstances under which this review of information in the specific context of the intended application. Solar Mining Services will not be responsible for any damage of any nature resulting from those implied warranties, given other than those implied mandatories by local legislation.

Note

Recommendations for use:

- The range may be charged and fired several months later (provided the product remains within recommended shelf life)
- VOD depends on conditions of use, hole diameter, degree of confinement, temperature, density and initiation system.
- REE is the effective energy relative to ANFO at a density of 0.8g/cm³. ANFO has an effective energy of 2.30MJ/kg. Energies quoted are based on ideal detonation calculations with a 100Mpa cut off pressure.