SOLAR MINING SERVICES
EXPLOSIVES & ACCESSORIES

TECHNICAL DATA SHEET

SOLAR CORD

DETONATING CORD

SAFETY • QUALITY • RELIABILITY

DESCRIPTION

SOLAR CORD provides quick, safe and convenient means of simultaneously initiation of any number of independent or inter-related charges. **SOLAR CORD**s are strong, flexible, lightweight, comprising of an explosive core of PETN contained within a spiral of tape plastic sheathing and natural synthetic fibres. **SOLAR CORD**s are available in a variety of PETN charge weights designed for different applications.

APPLICATION

Underground, Open Pit, Quarry and Construction

APPEARANCE

SOLAR CORDs consist of different colours assigned per PETN core load weight/mass. The colours assigned per PETN charge are yellow, white, red, blue, orange and green varying from 5 to 80g/m detonating cords.

FEATURES

- Initiated by No. 06 or No. 08 plain detonator, electric or non-electric detonators secured to the cord.
- High tensile strength
- Initiates emulsions, watergels cartridges and special primers or Boosters
- Strong, flexible and lightweight
- Excellent water and oil resistance
- Relatively insensitive to electrostatic discharge and other forms of electricity
- High Velocity of Detonation (VOD)

STORAGE

Store **SOLAR CORD** under moderate temperatures and dry conditions in well ventilated approved explosives storage facility or licensed magazine for 1.1D Explosives.

SHELF LIFE

SOLAR CORD has a minimum shelf life of 3 years when stored in a recommended good storage condition.

SHIPPING INFORMATION

Class / Division	1.1
Group	D
UN No.	0065
Shipping Name	Cord, Detonating, Flexible

SOLAR MINING SERVICES
EXPLOSIVES & ACCESSORIES

TECHNICAL DATA SHEET

PACKAGING

SOLAR CORDs – Are packed in cardboard cases.

DETONATING CORDS	Reel Length (m)	UNITS/CASE
SOLAR CORD A	300	4
SOLAR CORD I	300	4
SOLAR CORD II	250	4
SOLAR CORD III	250	4
SOLAR CORD IV	125	4
SOLAR CORD V	75	4
SOLAR CORD VI	50	4

TECHNICAL PROPERTIES

MOC: Synthetic fibres, plastic sheathing & tapes
VOD (m/sec): 6500-7500

TM	PETN	Diameter	Colour	Tensile
SOLAR CORD A	5 g	4.1 ± 0.1	Yellow	60 kg
SOLAR CORD I	6 g	4.2 ± 0.1	White	60 kg
SOLAR CORD II	10 g	4.8 ± 0.1	Red	70 kg
SOLAR CORD III	12 g	5.0 ± 0.1	Blue	70 kg
SOLAR CORD IV	20 g	6.0 ± 0.2	Orange	70 kg
SOLAR CORD V	40 g	8.3 ± 0.2	Green	90 kg
SOLAR CORD VI	80 g	11.2 ± 0.2	Green	90 kg

SOLAR CORD is a high explosive that must be handled with care and respect at all times. Detonating cord is unaffected by stray currents generated by electrical storms, power lines and radio/radar transmitters except for direct lightning strike. During normal handling, the use of detonating cord is safe and insensitive to accidental initiation, however intense impact or friction can initiate detonating cord. **SOLAR CORD** can detonate when subjected to extremely high temperature, but remains stable for use up to 70 degrees C. For temperatures between 70 degrees and 80 degrees' exposure should not exceed 24 hours.

NOTE

SOLAR CORD detonating downlines must be a continuous length of cord & must never incorporate knots splices inside a blast hole. Detonating cord should be cut with approved cord cutter (an anvil type tool cutter or a sharp knife). Cutting devices, which have a shearing action (e.g. scissors) must not be used to cut detonating cord. Detonating cord can be attached to a cartridge of high explosives by simply tying the cord securely around cartridge. When using Cast boosters ensure usage of detonating cord which has a PETN charge that is greater than 5g/m. Ensure booster is securely attached to detonating cord by threading the cord through the tunnel provided and tie cord in a loop.

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.