TECHNICAL DATA SHEET

TIGER CORD – DETONATING CORD

PRODUCT DESCRIPTION

TIGERCORD detonating cords are flexible linear explosives with a core of PETN explosive encased in a textile outer jacket. TIGERCORD detonatingcords are designed for use as trunklines and/or downlines in various mining, quarrying and construction applications.

TIGERCORD is available with a variety of PETN charge weights 5 g/m to 80 g/m designed for different applications.

APPLICATION RECOMMENDATIONS

- ALWAYS cut detonating cord with a sharp, non-sparking knife.
- ALWAYS use square knots to extend/join detonating cords that will propagate self- to-self. When connecting downlines to trunklines, always use a clove hitch knot and keep incoming and outgoing cords at right angles to avoid possibility of cut-offs.
- ALWAYS use a detonating cord product, such as TIGERCORD detonating cord with a greater explosive core load as a trunkline to initiate Tigercord.
- Tigercord is a high explosive that must be handled with care and respect at all times.

Except for a direct lightning strike, Tigercord detonating cord is unaffected by stray currents generated by electrical storms, power lines and radio/radar transmitters which make electric firing comparatively hazardous.

Intense impact or friction can initiate Tigercord, but is insensitive to initiation during normal handling.

- Tigercord can detonate if subjected to extremely high temperature, but remains stable and safe to use below 70°C. For temperatures between 70°C and 80°C exposure time should not exceed 24 hours.
- ALWAYS use a double wrap clove hitch knot to connect TIGERCORD detonating cord to the trunkline cord.
- Never allow trunklines and/or downlines to cross.
- Minimum recommended initiating detonator is a No. 6 or 8 strength or nonelectric detonator. The detonator must be taped 20-30 cm from the cut-off end and the bottom of the detonator must point in the cord's direction of detonation.
- Intense impact or friction can initiate Tigercord but is insensitive to initiation during normal handling.
- When using detonating cord under water, cord ends must be sealed with tape.
- When splicing two cords they must be tied together with secure knot or taped together with a length of at least 10 cm.
- Trunk lines must be laid in such a way that the detonation from the primary cord continues in the same direction, when it transfers over to the trunk line core.
- Connected cords and trunk lines cords of detonating cords should be affixed outside boreholes.
- To prevent transmission between multiple parallel running cords, the distance between cords should be at least 1 metre.

Additionally, JEPL also recommends the following to be considered:

- To prevent spillage of pentrite and moisture to penetrate into the yarn encasement, the cord ends should be sealed with tape immediately after cutting.
- Dry pentrite is very sensitive to impacts.
- Wet pentrite has low sensitivity; interruption in detonation may occur.
- Avoid knots and loops on the cord during charging. This may cause interruption in detonation.
- In case of spillage or if remainders of detonating cord are found after blasting, these must be collected and treated as explosives

PACKING

Product	Length/Reel (meters)	Reels/ case	Length/case (meters)
Tiger Cord 5	375	4	1500
Tiger Cord 8	375	4	1500
Tiger Cord 10	375	4	1500
Tiger Cord 12	250	4	1000
Tiger Cord 20	150	4	600
Tiger Cord 40	100	4	400
Tiger cord 80	50	4	200

Normally, Maximum Joints / Reel are 2 and indicated on the reels.

Colour of Detonating Cord can also be changed as per request.

TRANSPORTATION, STORAGE AND HANDLING

- TIGERCORD must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (3 years), TIGERCORD must be stored in a cool, dry, well-ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product,

TECHNICAL PROPERTIES

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Product	Diameter	PETN core load (g/m)	V O D (m/sec)	Tensile strength (kg)	water resistance	Flexibility at -20^{0}C & 70^{0}C
Tiger cord 5	4.2-4.6	5	6000-6500	40	Excellent	sensitive
Tiger cord 8	4.8-5.2	8	6500-7000	50	Excellent	sensitive
Tiger cord 10	5.0-5.5	10	6500-7000	50	Excellent	sensitive
Tiger cord 12	5.5-6.0	12	6500-7000	60	Excellent	sensitive
Tiger cord 20	7.2-8.0	20	6500-7200	70	Excellent	sensitive
Tiger cord 40	8.5-9.0	40	6500-7200	70	Excellent	sensitive
Tiger cord 80	12.0-14.0	80	6500-7200	70	Excellent	sensitive

Shipping Information :

Authorised Name of Explosive : TIGER CORD
Proper Shipping Name : CORD DETONATING,
Class / Div. : 1.1D
UN No. : 0065

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

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