

# INITIATING SYSTEMS

## DETONATING FUSE

**Detonating cord or fuse is a core of high explosives**, normally PETN [pentaerythritol tetranitrate], enclosed in PP yarn, plastic sheathing (polyethylene jacket) and natural and synthetic fibre for waterproofing. It is basically PETN in covering of textile, plastic and waterproofing material. The degree of tensile strength, abrasion resistance, and flexibility of each covering varies. It acts as a means for safe and quick initiation of detonator sensitive industrial explosives and provides a path for initiation of non-electric detonators.

## SAFETY

- Should be kept protected from water in a wet environment. Detonating cord doesn't initiate if it's wet, since PETN absorbs water and becomes insensitive to detonation. However, it can be initiated from the dry end.
- Detonating cord is an explosive, thus, should be handled and transported carefully at all times.
- It is sensitive to direct lightning strike and intense impact or friction while handling and extremely high temperatures (mostly above 70°C).

## ADVANTAGES

- Relatively insensitive to detonation by heat, electrostatic discharge or other forms of electricity
- Excellent resistance to side penetration by oil or water/ Water and abrasion resistant.
- High tensile strength
- Easy to handle and to tie into knots
- Flexible
- Easy identification due to different colours.
- Electronically & mechanically inspected.
- Assures reliable non-electric initiation.
- Safer to use as compared to any other blasting cap/ less risk in handling and loading.
- Easy to connect branch lines.

# DETONATING FUSE

SHIPPING NAME CORD DETONATING , FLEXIBLE		Class /DIV. : 1.1 D			UN NO : 0065		
AUTHORISED NAME OF PRODUCT	PESO BRAND ID	PETN/MTS	DF PER SPOOL	No of Spool in a box	DF PER BOX	DIA	TENSILE
		gram	mtr	nos..	mtr	mm	[Kgs]
NEO CORD	1031	10	250	4	1000	5.0 ± 0.1	65
		10	375	4	1500		
NEO CORD 8	1153	08	375	4	1500	4.7 ± 0.1	65
NEO CORD 12	1154	12	250	4	1000	5.2 ± 0.1	70
		12	375	4	1500		
NEO CORD 20	1155	20	125	4	500	6.2 ± 0.1	70

APPLICATION	<ul style="list-style-type: none"> <li>The Product is used for trunkline and down line for initiating explosive</li> </ul>
ADVANTAGES	<ul style="list-style-type: none"> <li>Suitable for opencast mines, quarries, trenching and tunneling work.</li> </ul>
HOW TO USE	<ul style="list-style-type: none"> <li>Initiation by Number 6 Detonator</li> </ul>

**Velocity of Detonation ranges from 6500 to 7500 meter/second.**

