

Cordtex™ N



Description

Cordtex™ N is a resistant and flexible detonating cord, made of a PETN core covered by a fiber fabric, that is also covered by another plastic coating (PVC). Cordtex™ N detonating cords will satisfy most blasting requirements in mining and quarry & construction.

Application

Cordtex™ N detonating cords provide non-electric initiation of blast patterns in open pit mining, underground mining, quarries and civil works.

Low strength detonating cords are typically used for the initiation of non-electric detonators or as a surface trunkline to connect blast holes.

Higher strength detonating cords are typically used as initiating downlines or explosives charges.


Key Benefits

- Excellent resistance to tension, abrasion and humidity.
- Safe and easy to handle.
- Multiple core loads to match energies to applications.

Technical Properties

Product	Cordtex™			
	20N	40N	80N	100N
Explosive core load (g/m)	20 ±1.5	40 ±3.0	80 ±4.0	100 ±5.0
Detonation velocity (m/s)	>6500			
Tensile strength (N)	981			
Specific energy (kJ/m)	26.76	53.52	107.04	133.8
Gas volume (l/m)	15.6	31.2	62.4	78
Impact sensitivity (BAM fall hammer) (J)	above 10 J - 2 kg drop hammer with drop height of 50 cm – no detonation			
Outside diameter (mm)	7.0 ±0.3	8.5 ±0.4	11.5 ±0.5	12.0 ±0.6
Detonating cord colour	red	blue	yellow	red
Jacket material	PVC			

Recommendations for Use

- Detonating cord can be reliably initiated by a detonator with an output strength of a REF. DET #3 or higher.
- For initiation the detonator must be secured tightly to the detonating cord at least 20 cm away from the end and with the detonator base charge pointing in the direction of initiation. 
- To prevent the possibility of detonating cord tail cut off roll the starter tail of detonating cord into a loop and secure with shot firing tape.
- Splicing of detonating cord must be done using a secure knot or by wrapping the cords together with tape which is at least 10 cm long or by use of special designed clips for cords.
- When using detonating cords under water or in wet conditions, the cut ends must be sealed.
- Detonating cord must only be cut with a sharp knife or other tool specifically designed for such purpose.
- To prevent spillage of PETN and moisture ingress into the yarn encasement the cord should be end-sealed with tape immediately after cutting.
- 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.
- Not for use on sites where there is the possibility of methane or coal dust explosions.
- In blasts where the distance between the ends of the detonating cord on surface between blast holes is less than 1 m, the ends have to be covered with stemming.

These products are available for use in ground temperatures -20 °C to a maximum of +60 °C (Cordtex™ 80N and Cordtex™ 100N = -20 °C to a maximum of +50 °C). If your application requires you to operate outside this temperature range please contact DEXPLOC representative.

Packaging

Cordtex™ N detonating cords are available in the following packaging:

Product	Detonating cord length (m)	Spool outside diameter (mm)	Spool length (mm)	Spool per box (items)
Cordtex™ 20N	150 ±1.5	220	240	2
Cordtex™ 40N	100 ±1.0	220	240	2
Cordtex™ 80N	50 ±0.5	220	240	2
Cordtex™ 100N	50 ±0.5	220	240	2

Product	Box weight NEM (kg)	Box weight gross (kg)	Box dimension (mm) LxBxH
Cordtex™ 20N	6.0	15.8	455x235x255
Cordtex™ 40N	8.0	16.6	455x235x255
Cordtex™ 80N	8.0	14.6	455x235x255
Cordtex™ 100N	10.0	15.7	455x235x255

Storage and Handling

Product Classification

Authorised Name	EC Type Certificate
Cordtex™ 20N	0589.EXP.3513/08
Cordtex™ 40N	0589.EXP.3514/08
Cordtex™ 80N	0589.EXP.3515/08
Cordtex™ 100N	0589.EXP.3516/08

Proper Shipping Name: Cord, Detonating
UN No.: 0065
Classification: 1.1D

Storage

Cordtex™ N should be stored in a suitably licensed magazine for Class 1.1D explosives. Cordtex™ N have a storage life of 3 years in stable, temperate conditions.

Cordtex™ N detonating cords are best stored at ambient temperatures of -20 °C to +50 °C.

Disposal

Disposal of explosives materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a DEXPLOC representative for information on safe practices.

Safety

Cordtex™ N detonating cord contains explosives, which are relatively insensitive to accidental initiation by mechanical impact, friction or heat under normal conditions of use. However, it is advisable not to subject it to conditions other than those specified by the manufacturer.

Training

This Technical Data Sheet is for information only. Detonating cord must only be used by personnel who have been properly trained to use this product.

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