# dexploc TECHNICAL INFORMATION

# Cordtex™

## Detonating Cord with waxed coating


### Description

Cordtex™ waxed is is a resistant and flexible detonating cord with a PETN core. The core is encased in a layer of textile yarn protected with a flexible plastic coating and reinforced with a second layer of textile yarn. The external coating allows for secure knot holding.

The results are reliable knots and couplings under all normal temperature conditions. The cord's construction gives good protection against lateral penetration of water and oil.

### Application

Cordtex™ waxed is used for non-electric initiation of blast patterns for both surface and underground blasts. In tunneling Cordtex™ 18 are frequently used to initiate shock tube bundles from Exel™ LP detonators.

### Key Benefits

- Hold their knots in both hot and cold temperature conditions.
- Stand up to tough conditions.
- Withstand tough borehole conditions.
- Facilitate rapid identification.
- Allow long in-hole sleep times.
- Multiple core loads to match energies to applications.

### Features

- Easy to connect via knotting.
- Rugged with an abrasion resistant finish.
- High tensile strength.
- Brightly coloured textiles with a wax coding.
- Highly resistant to side penetration of water and fuel oil.
- Available in a variety of core loads.

### Technical Properties

| Product | Cordtex™ 18 |
|---|---|
| Explosive core load (g/m) | 5.3 [Min: 4.8 ; Max: 6.0] |
| Detonation velocity (m/s) | >6600 |
| Tensile strength (N) minimum | ≥1000 |
| Impact sensitivity (J) BAM requirement | ≥10 |
| Outside diameter (mm) | 4.1 ±0.25 |
| Colour | lime-green with 2 parallel black threads |
| Jacket material | Waxed yarn textile |

### Recommendations for Use

- Detonating cord must only be cut with a sharp knife made of non-sparking metal or other tool specifically designed for such purpose.
- Detonating cord must be initiated by a detonator with an output strength that is at least equivalent to a Ref. Det. #3 (≥ 600mg PETN base charge) The detonator must be secured with tape or fastened appropriately about 20 - 30 cm from the end, so that the bottom of the detonator (base charge) points in the cord's direction of detonation.
- Splicing of cords must be done using a secure knot or by wrapping the cords together with tape (at least 10 cm) or by use of special designed clips for detonating cords.
- When using detonating cords underwater, cord ends must be sealed.
- Not for use in mines where flammable gas atmospheres may be a hazard.

### Packaging

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

| Cordtex™ 18 | | | | |
|---|---|---|---|---|
| Detonating cord length (m) | Spool outside diameter (mm) | Spool length (mm) | Spool per box (items) | Gross Weight per case (kg) |
| 300 | 235 | 141.7 | 4 | 20.0 |

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## Storage and Handling

**Product Classification**

| | |
|---|---|
| Authorised Name: | Cordtex™ 18 |
| Proper Shipping Name: | Cord, Detonating |
| UN No.: | 0065 |
| Classification: | 1.1D |
| EC Type Certificate: | 0589.EXP.2784/18 |

Cordtex™ waxed should be stored in a suitably licensed magazine for Class 1.1D explosives.

Detonating cords are best stored at ambient temperatures of -30°C to +40 °C.

Cordtex™ waxed have a storage life of 5 years in stable, temperate conditions.

These products are available for use in ground temperatures -30 °C to a maximum of +45 °C. If your application requires you to operate outside this temperature range, please contact your local Orica representative.

## 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 local Orica representative for information on safe practices.

## Safety

Cordtex™ waxed 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.

## Disclaimer



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