Technical Data Sheet

Detonating cord
Nobelcord - 20, 40, 80 og 100 gram

Nobelcord is the designation on detonating cord (pentrit), distributed in Scandinavia by Orica Mining Services in four variants; 20, 40, 80 and 100 g/m.

Nobelcord has a PETN (pentaerythrol tetranitrate) explosive core. The explosive is encased by a plastic sheeting and several layers of yarn, finally protected by a flexible plastic coating.

In general Nobelcord is used for presplitting, smooth blasting and dimensional stone blasting with strong demands on the final contour (instantaneous initiation of boreholes). Initiation of Nobelcord usually is done by E-cord (5 g/m) or F-cord (10 g/m).

<table>
<thead>
<tr>
<th>Technical data</th>
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</thead>
<tbody>
<tr>
<td>Detonation Velocity</td>
<td>6500 - 7000 m/s</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-20°C til +50°C</td>
</tr>
<tr>
<td>Explosive core</td>
<td>Pentrit (PETN)</td>
</tr>
<tr>
<td>Colour, 20 gram</td>
<td>Pink</td>
</tr>
<tr>
<td>Colour, 40 gram</td>
<td>Blue</td>
</tr>
<tr>
<td>Colour, 80 gram</td>
<td>Yellow/green</td>
</tr>
<tr>
<td>Colour, 100 gram</td>
<td>Red</td>
</tr>
</tbody>
</table>

Application and Security Regulations:

- Detonating cord must be cut with a sharp knife or other tool specifically designed for this purpose.
- Detonating cord must be initiated by detonator No 8 (detonator strength). 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.
- When splicing two cords they must be tied together with a secure knot, or taped together with a length of at least 10 cm.
- Trunk lines of detonating cord must be done using half hitches, clips (Multiclip) or taping the cords 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.
- When using detonating cord underwater, cord ends must be sealed with packing.
Detonating cord
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Additionally Orica 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.

NONEL eclip connecting block must not be used as bunch connector combined with F-cord 10 or other detonating cord. Use NONEL with SnapLine-block.

### Nobelcord

<table>
<thead>
<tr>
<th>Product</th>
<th>Coreload (g/m)</th>
<th>Diameter (mm)</th>
<th>Spools x length in box (m)</th>
<th>Net weight box (kg)</th>
<th>Gross weight box (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nobelcord 20</td>
<td>20</td>
<td>10</td>
<td>2 x 150</td>
<td>6,0</td>
<td>16</td>
</tr>
<tr>
<td>Nobelcord 40</td>
<td>40</td>
<td>10</td>
<td>2 x 100</td>
<td>8,0</td>
<td>17</td>
</tr>
<tr>
<td>Nobelcord 80</td>
<td>80</td>
<td>12</td>
<td>2 x 50</td>
<td>8,0</td>
<td>15</td>
</tr>
<tr>
<td>Nobelcord 100</td>
<td>100</td>
<td>13</td>
<td>2 x 50</td>
<td>10,0</td>
<td>16</td>
</tr>
</tbody>
</table>

**Approval and classification**

**Notified Body**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Number</th>
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<tbody>
<tr>
<td>CE0812 (BAM, Germany)</td>
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</tbody>
</table>

**EC Type Examination Certificate**

- 20 gram
  - 0589.EXP.5249/04
- 40 gram
  - 0589.EXP.5250/04
- 80 gram
  - 0589.EXP.5251/04
- 100 gram
  - 0589.EXP.5252/04

**Proper shipping name**

- Cord, detonating

**UN-number**

- 0065

**Transport class**

- 1.1 D

### Storage conditions

- **Shelf life**: 2 year
- **Humidity**: Dry and airy

**Destruction of explosives**

Refer to national laws and regulations.

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