NONEL® Lead Line™ 1000

Description
NONEL® Lead Line 1000 is a reel-off NONEL tube system used as a lead-in line for blast initiation.

Application
NONEL Lead Line is used as a reel-off lead-in line, providing the shot firer with control over the clearance between the firing point and blast.

A length of NONEL tube is reeled out between the blast initiation point and a safe firing location. After cutting to length, the Lead Line tube is joined to a standard NONEL EZTL™ or a similar detonator unit. The join must be made using the special tube joiners provided. The open end of the remaining tube on the spool must be sealed with the special end cap provided. This will help prevent moisture penetrating into the tube during storage.

NONEL Lead Line is initiated with DynoStart™ or a NONEL Starter™ Gun.

Properties

<table>
<thead>
<tr>
<th>Colour</th>
<th>Yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube</td>
<td>Standard</td>
</tr>
<tr>
<td>Tube diameter (mm)</td>
<td>3 (external)</td>
</tr>
<tr>
<td>Velocity of Detonation (m/s)</td>
<td>2100 +/- 300</td>
</tr>
</tbody>
</table>

Hazardous Shipping Description
Articles, Explosives, NOS, 1.4S, UN 0349

Packaging

<table>
<thead>
<tr>
<th>Case Dimensions</th>
<th>555mm x 280mm x 255mm</th>
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</thead>
<tbody>
<tr>
<td>Case Weight</td>
<td>12.5kg</td>
</tr>
<tr>
<td>Number of Reels per case</td>
<td>2</td>
</tr>
<tr>
<td>Sealing caps</td>
<td>Each case of Lead Line 1000 is packaged with 8 end caps and 8 tube joiners</td>
</tr>
</tbody>
</table>
NONEL® Lead Line 1000

Features and Benefits

- NONE Lead Line can be cut to the length required, minimising tube wastage.
- NONE Lead Line can be run out over the top of surface initiation systems without disruption or interference.
- NONE Lead Line provides a high level of safety against accidental initiation by stray electrical current, radio transmissions or static electricity.

Recommendations

Connection - After cutting to length, the Lead Line signal tube must be joined to the initiating NONE detonator, using one of the tube joiners provided. Lead Line tube must never be unreeled while it is connected to the surface initiation system.

Both NONE tubes should be inserted into the splice a minimum of 5mm and firmly seated in the splice. Avoid any contamination such as dirt and moisture in the joiner and the ends of cut NONE tubes. Accidental contamination of the joiner or shock tube ends may result in a shutdown.

Avoid tension on the Lead Line tube that could result in separation at the joiner.

Dirt and Water Resistance - Cutting and joining NONE tube should be conducted in clean and dry conditions. The Lead Line tube end must be resealed using the tube end caps provided in a timely manner.

It is recommended that the initial metre of the tube be cut and discarded prior to each application.

Recommendations (continued)

Sleep Time – The sleep time of the NONE Lead Line is dependent on the temperature and type of explosive in contact with the unit. Please contact Dyno Nobel for further information.

Water Resistance – The splice join of NONE Lead Line 1000 may prove to unreliable due to moisture ingress causing shutdowns. The use of NONE Starter is recommended for wet conditions.

Ground Temperature - The NONE Lead Line tube system can be safely used in ground with a temperature range of -40°C to +70°C.

Shelf Life – NONE Lead Line has a recommended shelf life of three (3) years, when transported and stored in a sealed box under ideal conditions. If tube is cut, end caps must be used to prevent moisture ingestion.

Safe handling, transportation and storage

First Aid – You can find detailed first aid information on the relevant Dyno Nobel Safety Data Sheet. Refer to www.dynonobel.com for more information if required.

Safety - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.