

# NONEL<sup>®</sup> Lead Line<sup>™</sup>

Technical  
Information



## Description

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

## Application

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 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.

Lead Line is initiated with DynoStart<sup>®</sup> or a NONEL Starter Gun.

## Properties

**Explosives Class: 1.4S**

**U.N. No: 0349**

Colour

Yellow

Tube

Standard

Tube diameter (mm)

3 (external)

Tube length (m)

3000

Velocity of detonation (m/s)

2100 +/- 300

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## Features

- Lead Line can be mounted in a reel assembly on the rear of the shot firer's vehicle and cut to the length required, minimising tube wastage.
- Lead Line can be run out over the top of surface initiation systems without disruption or interference.
- 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 NONEL 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 NONEL tubes should be fully inserted into the joiner ensuring contact with each other. Avoid any contamination such as dirt and moisture in the joiner and the ends of cut NONEL tubes. Accidental contamination of the joiner or shock tube ends may result in misfires. Avoid kinking the signal tube at the joiner. Avoid tension on the Lead Line tube that could result in separation at the joiner.

**Dirt and Water Resistance** - Cutting and joining NONEL tube should be conducted in clean and dry conditions. The Lead Line lead-in line 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.

**Temperature Range** - The Lead Line tube system can be used as described on this technical information sheet in ambient temperatures ranging from -40C to +70C.

**Shelf Life** – Lead Line has a recommended shelf life of two (2) years, when transported and stored in a sealed box under ideal conditions. If tube is cut, end caps must be used to prevent moisture ingress.

**Sleep Time** - In wet conditions Lead Line tube should be used on a "load and shoot" basis. This ensures reliable initiation if the Lead Line tube is used or stored in damp conditions.

## Packaging

Reel Dimensions: 32cm x 40cm diameter

Reel Weight: 19kg

Number of Reels Per Case: 1

Sealing Caps: Each reel of Lead Line tube is packaged with end caps and 15 tube joiners.

Additional bags of end caps and 50 tube joiners are available.

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## Safe handling, transportation & storage

**First Aid** - Detailed first aid information regarding this product is contained on the relevant Dyno Nobel Material Safety Data Sheet.

**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.

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The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

While Dyno Nobel makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific context of the intended use. If technical advice is required in the specific application of the products then you should contact Dyno Nobel for assistance.

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