

# NONEL® Lead Line™ 1000

Technical  
Information



## 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

Colour	Yellow
Tube	Standard
Tube diameter (mm)	3 (external)
Velocity of Detonation (m/s)	2100 +/- 300

## Hazardous Shipping Description

Articles, Explosives, NOS, 1.4S, UN 0349



## Packaging

Case Dimensions	555mm x 280mm x 255mm
Case Weight	12.5kg
Number of Reels per case	2
Sealing caps	Each case of Lead Line 1000 is packaged with 8 end caps and 8 tube joiners

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## Features and Benefits

- NONEL Lead Line can be cut to the length required, minimising tube wastage.
- NONEL Lead Line can be run out over the top of surface initiation systems without disruption or interference.
- NONEL 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 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 NONEL tubes. Accidental contamination of the joiner or shock tube ends may result in a shutdown. 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 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 NONEL 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 NONEL Lead Line 1000 may prove to be unreliable due to moisture ingress causing shutdowns. The use of NONEL Starter is recommended for wet conditions.

**Ground Temperature** - The NONEL Lead Line tube system can be safely used in ground with a temperature range of -40°C to +70°C.

**Shelf Life** – NONEL 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 ingress.

## 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](http://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.

**Product Disclaimer** The explosive products discussed in this document should only be handled by persons with the appropriate technical skills, training and licences. While Dyno Nobel has made every effort to ensure the information in this document is correct, every user is responsible for understanding the safe and correct use of the products. If you need specific technical advice or have any questions, you should contact your Dyno Nobel representative. This information is provided without any warranty, express or implied, regarding its correctness or accuracy and, to the maximum extent permitted by law, Dyno Nobel expressly disclaims any and all liability arising from the use of this document or the information contained herein. It is solely the responsibility of the user to make enquiries, obtain advice and determine the safe conditions for use of the products referred to herein and the user assumes liability for any loss, damage, expense or cost resulting from such use. © DYNNO, GROUNDBREAKING PERFORMANCE, and NONEL are registered trademarks of the Dyno Nobel / Incitec Pivot Group. ™ LEAD LINE, EZTL, DYNOSTART, STARTER and the Loop device are trademarks of the Dyno Nobel / Incitec Pivot Group. © Dyno Nobel Asia Pacific Pty Limited 2015. Reproduction without permission strictly prohibited.