

# NONEL® LP Series

Technical  
Information



## Description

The NONEL® LP detonator is a long period, high strength delay detonator series featuring 19 delays ranging from 25 to 8000 milliseconds.

## Application

The LP series provides an excellent in-hole initiating system appropriate for underground mining and construction applications. Used in conjunction with 5.0 g/m detonating cord, effective and accurate in-hole long period timing sequences are available. Colour-coded and stamped cord clips allow for easy identification.

## Features & Benefits

- The NONEL detonator design provides a high level of safety against accidental initiation and improves handling characteristics.
- The NONEL LP detonator provides increased water hammer resistance in blasting applications where saturated ground conditions exist.

## Properties

Explosives Class 1.1B

U.N. No: 0360

Detonator

No. 12 Strength

NONEL tube colour

Yellow

NONEL tube diameter (mm)

3.0

NONEL tube VOD (m/sec)

2100 ± 300

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## Recommendations

**Use** - It is recommended that the LP detonator be used as an in-hole delay detonator for underground mining, tunnelling, shaft sinking and construction applications.

**Water Resistance** - The LP series provides excellent water resistance.

**Temperature Range** - The LP series can be safely used in temperatures ranging between -40°C and +70°C.

**Shelf Life** - The recommended storage life for NONEL LP detonators is 2 years under ideal conditions. Accuracy of delay detonators may deteriorate with age and stocks should be rotated regularly.

**Sleep Time** - The sleep time of the LP is dependent on the temperature and type of explosive in contact with the unit. Please contact Dyno Nobel for further information.

## Packaging

Length (m)	Case count	Configuration
4.8	200	Sidewinder
5.4	175	Sidewinder
15	75	Sleeve
24	30	Spool
36	30	Spool

## Delay series

Delay Period	Clip Colour	Nominal Firing Time (ms)	Time Between Delays (ms)
0	White	25	
1	Red	500	475
2	Blue	800	300
3	Brown	1100	300
4	Orange	1400	300
5	Aqua	1700	300
6	Gold	2000	300
7	Lime Green	2300	300
8	Pink	2700	400
9	Black	3100	400
10	Purple	3500	400
11	Light Blue	3900	400
12	Dark Green	4400	500
13	Mauve	4900	500
14	Mustard	5400	500
15	Crimson	5900	500
16	Yellow	6500	600
17	Dark Blue	7200	700
18	Green	8000	800

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## Application of NONEL LP Sidewinder<sup>®</sup> Series

Sidewinder<sup>®</sup> is the winding configuration for NONEL LP detonators. Sidewinder has been specifically designed to significantly reduce the occurrence of tangling upon deployment. Each bundle holds 5 Sidewinder coils.



**Step 1.** Hold the bundle of five (5) Sidewinder coils by the loop where detonator bases are pointing down and facing away from your body.



**Step 2.** To separate the five (5) Sidewinder coils, remove the rubber band. Leave each tube coiled within its Sidewinder sleeve.

**Step 3.** Make up primer according to mine standards.

**Step 4.** Push the primer into the hole. The tube will unravel from its sleeve. The remainder of the tube will remain in the sleeve, thus preventing loose tubes hanging down the face.



**Step 5.** To complete deployment of unit, hold clip and pull the tube from its sleeve.

## 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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