



NONEL LP is a non-electric blast-initiation system series with long intervals, especially intended for drift and tunnel blasting. At this kind of blasting operations it is of great importance that delay time between intervals is sufficient to give the rock enough time to move forward without stopping.

The new LP series consists of 32 interval numbers from LP 0 to LP 6000. Lowest delay time is 25 milliseconds and highest is 6000 milliseconds. The new extended series is simpler to relate to, as interval number and initiator's delay time correspond.

With this new LP series it will be easier to distribute the amount of explosive among more intervals.

Technical data

Type	NONEL - NPED*
Sort	Tunnelling
Delay times	25 - 6000 ms
Interval times	50, 100, 200, 400 ms
Tube lengths	4,8 - 7,8 meter
Strength	No. 8
Explosives	1 g PETN/RDX
Diameter	7,5 mm
Color	Yellow
Water resistance	7 days at 3 bar pressure
Usertemperature	From -25° C to + 70° C

\*NPED-detonators (Non Primary Explosive Detonator), this means they do not contain any primary explosive (e.g. lead azide). NPED-detonators are considerably less sensitive to impact and rough handling than detonators that contain primary explosive.

NONEL LP			
Lead length m	Nominal dalaytime, msec*	Qty per bag 1.1 B	Qty per box 1.1 B
4,8	LP 0 - 6000	10	100
6,0	LP 0 - 6000	10	100
6,6	LP 0 - 6000	10	100
7,8	LP 0 - 6000	10	100

All products are not kept in stock, please contact for futher information.

Period number / Delay time milliseconds				
Interval number	Nominal dalaytime, msec*		Interval number	Nominal dalaytime, msec*
LP 0	25		LP 1100	1100
LP 100	100		LP 1200	1200
LP 150	150		LP 1400	1400
LP 200	200		LP 1600	1600
LP 250	250		LP 1800	1800
LP 300	300		LP 2000	2000
LP 350	350		LP 2400	2400
LP 400	400		LP 2800	2800
LP 450	450		LP 3200	3200
LP 500	500		LP 3600	3600
LP 550	550		LP 4000	4000
LP 600	600		LP 4400	4400
LP 700	700		LP 4800	4800
LP 800	800		LP 5200	5200
LP 900	900		LP 5600	5600
LP 1000	1000		LP 6000	6000

\* Nominal time, with 6.0 m tube

#### Storage conditions

Shelf life	2 years in original packing. Products in opened package should be used within 3 months. In climates with high humidity, used within one month.
Humidity	Dry and airy

#### Approval and classification

Notified Body	CE 0402 (SP, Sweden)
EC Type Examination	158401
Proper shipping name	Detonators, non-electric
UN-number	0360 or 0361 or 0500
Transport class	1.1.B or 1.4.B or 1.4.S

#### Destruction of NONEL tube

Blast away the reactive material with DynoStart and send the tube to: Recycling - Garbage dump - Burning site.

The manufacturer reserves the right to modify products without prior notice. © Dyno Nobel Sweden AB