# NONEL<sup>®</sup> MS 1.4B



SDS

#1122

### **Nonelectric Millisecond Delay Detonator**



#### **Product Description**

NONEL<sup>®</sup> nonelectric delay detonator MS 1.4B units consist of a length of orange shock tube, with a Standard (#8) detonator attached to one end and the other end sealed. A white J-hook is affixed near the sealed end, providing easy means of connection to detonating cord. Easy-to-read, color-coded delay tags display the delay number and nominal firing time prominently.

Designed to provide in-hole delay time for underground (non-coal) and surface blast applications in the mining, quarry and construction industries, the NONEL MS can be used in combination with a detonating cord trunkline, NONEL EZTL, NONEL EZ DET and/or NONEL TD detonators for maximum timing flexibility.

#### **Application Recommendations**

For detailed application recommendations, **ALWAYS** request a copy of Dyno Nobel's *Product Manual: NONEL® and PRIMACORD®* from your Dyno Nobel representative.

- ALWAYS use the plastic J-hook when using a detonating cord trunkline to initiate a NONEL MS unit. A minimum 3 g/m (15 gr/ft) detonating cord qualified for surface use is required for use with the J-hook.
- ALWAYS make sure the shock tube is connected to the J-hook and leads back to the hole collar at right angles to the detonating cord trunkline.

### **Properties**

Net Explosive Content per 100 units

0.0570 kg 0.1256 lbs

#### This product is only available in the United States.

Delay Time (msec)	Delay Tag Color	Delay Time (msec)	Delay Tag Color	Delay Time (msec)	Delay Tag Color
0	Orange	225	White	450	Orange
25	Red	250	Red	475	White
50	Tan	275	White	500	Purple
75	Green	300	Tan	525	White
100	Blue	325	White	600	Gray
125	Orange	350	Green	700	Lt Blue
150	Purple	375	White	800	Red
175	Gray	400	Blue	900	Tan
200	Lt Blue	425	White	1000	Green

#### Hazardous Shipping Description

Detonator assemblies, nonelectric, 1.4B, UN 0361 PG II





#### See Product Disclaimer on page 2

I-38-08-18-15

Groundbreaking Performance

## NONEL<sup>®</sup> MS 1.4B



#### Transportation, Storage and Handling

- NONEL MS must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (3 years), NONEL MS must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet "Prevention of Accidents in the Use of Explosive Materials" packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

#### Packaging

Length		Case	Coil Type	Quantity/Case	
m	ft	Туре	Con Type	Quantity/Case	
3.5	12	D*	Detpak	60	
4.5	16	D*	Detpak	60	
6	20	D*	Detpak	60	
9†	30	D*	Detpak	40	
12 <sup>†</sup>	40	D*	Detpak	30	
15 <sup>†</sup>	50	D*	Detpak	30	
18 <sup>†</sup>	60	D*	Detpak	25	
24†	80	DC	Detpak	40	
30†	100	DC	Detpak	40	
37†	120	DC	Detpak	30	
40††	130	L	Spool	30	
46††	150	L	Spool	30	
55††	180	L	Spool	30	
61††	200	L	Spool	30	

Length rounded to nearest one-half meter.

• Case weight varies by length & delay; see case label for exact weight.

\* Always shipped with 2 cases strapped together. Case dimension width doubles.

<sup>†</sup> Available in Super Tube

<sup>††</sup> Super Tube Only

#### Case Dimensions

L	57 x 27 x 32 cm	221/2 x 101/2 x 121/2 in
Detpak Case (DC)	48 x 45 x 26 cm	18¾ x 17¾ x 10¾ in
Detpak (D)	44 x 22 x 25 cm	17½ x 8¾ x 10 in

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Note: This product is also available with a High Strength cap. For more

information, please contact your local Dyno Nobel sales representative.



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