TECHNICAL DATA SHEET

NONEL[®] MS 1.1B

Nonelectric Millisecond Delay Detonator

Properties sps #1122								
Net Explosive Content per 100 units			0.0885 kg 0.1951 lbs					
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			

• Detonator assemblies, nonelectric, 1.1B, UN 0360 PG II



PRODUCT DESCRIPTION

NONEL® nonelectric delay detonator MS 1.1B units consist

of a length of orange shock tube with a High Strength 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.

NONEL MS is designed to provide in-hole time for underground (non-coal) and surface blast applications in the mining, quarry and construction industries and 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.



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Properties Cont.

Packaging								
	Length		Coil Type	Quantity /				
mete	ers feet	Туре	Con Type	Case				
3.5	5 12	DC	Detpak	300				
4.5	5 16	DC	Detpak	240				
6	20	DC	Detpak	180				
9†	30	DC	Detpak	150				
12	† 40	DC	Detpak	120				
15	† 50	DC	Detpak	90				
18	† 60	DC	Detpak	90				
24	† 80	DC	Detpak	40				
30	† 100	DC	Detpak	40				
37	† 120	DC	Detpak	30				
40†	^{tt} 130	L	Spool	30				
461	^{tt} 150	L	Spool	30				
551	^{tt} 180	L	Spool	30				
611	11 200	L	Spool	30				

• Length rounded to nearest one-half meter.

- Case weight varies by length & delay; see case label for exact weight.
- 2.5 to 24 meter product, in 500 & 1000 ms delays, is also available with HD tube.
- [†] Available in Super Tube.

⁺⁺ Super Tube only.

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.

Case Dimensions

L Detpak Case (DC)

ADDITIONAL INFORMATION – Visit <u>dynonobel.com</u> for Brochures and Case Studies related to this product.

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