MAXNEL MS Non-Electric Detonators

TECHNICAL DATA SHEET – INITIATION SYSTEMS

MAXNEL MS
Millisecond Delay Non-Electric Detonators

MAXNEL MS non-electric detonators consist of a high-energy detonator, a T-connector and a length of shock tube of varying length. Connections to the detonating cord are made more easily with the T-connector. The delay time for MAXNEL MS is noted on the tag and the delay time and number is also printed predominantly on the T-connector.

APPLICATION

MAXNEL MS non-electric detonators are suitable for use in blasting operations of surface and underground mining, quarry and construction projects, where there is no existing explosion hazard of either methane or mine dust.

INSTRUCTIONS FOR USE

- The detonator cannot be used in blasting operations where there is any risk of explosion hazard relating to methane.
- During operations, care must be taken when handling the shock tube to prevent damage caused by friction, breakage, burning or cutting.
- When the T-connector block is connected to the blasting network, the T-connector should be no less than 20cm from the end of the shock tube to avoid slipping and loss of connection.

PHYSICAL PROPERTIES

Authorised Shipping Name	DETONATOR ASSEMBLIES, NON-, ELECTRIC, for blasting
Initiating Power	No.8 Detonator
Functional Temperature Range	-40°C ~ +60°C
Water Resistance	When immersed underwater at 20m for 72 hours, will function reliably
Oil Resistance	When immersed in #0 diesel oil at 80°C and 0.3MPa pressure for 72 hours, will function reliably
Tensile Force	When pulled with 70N tensile force for one minute, all parts will remain connected
T-Type Connector Block	Only to be used for connecting detonating cord
Explosive Class: 1.1B	UN Number: UN 0360

STORAGE AND HANDLING

Storage: MAXNEL MS Non-Electric Detonators should always be stored away from sources of heat in a dry, cool, well-ventilated magazine. The shelf life of this product is ten (10) years when stored correctly.

Handling: During transportation and handling, the product should be treated with great care and should never be dropped, knocked or subjected to any impact.

DELAY NUMBER AND NOMINAL TIMES

NUMBER	TIME (MS)	NUMBER	TIME (MS)
0	0	21	550
1	25	22	600
2	50	23	650
3	75	24	700
4	100	25	800
5	125	26	1100
6	150	27	1400
7	175	28	1700
8	200	29	2000
9	225	30	2300
10	250	31	2700
11	275	32	3100
12	300	33	3500
13	325	34	3900
14	350	35	4400
15	375	36	4900
16	400	37	5400
17	425	38	5900
18	450	39	6500
19	475	40	7200
20	500	41	8000

STANDARD PACKAGING GUIDELINES

SHOCK TUBE LENTGH (M)	PIECES/CASE
4.8	85
6.0	75
7.2	70
9.0	65
12.0	40
15.0	35
18.0	30
24.0	20
Case Dimension: 360 x 270 x 225mm	

MAXNEL MS non-electric detonators are packed into sealed plastic bags, which are then packed into fibreboard cases.

SAFETY

First Aid – Please refer to the Safety Data Sheet for MAXNEL MS Detonators, Nitro Sibir Ref IS10.

Safety – All explosives are classified as dangerous goods and must be handled and stored with care. Misuse may result in personal injury and/or damage to property. Explosives should only be handled by persons with the appropriate technical skills, experience, training and licences.

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