



SUPREME DET-S

TECHNICAL DATA SHEET

1. Product Classification

Authorized name: SUPREMEDET	Shipping Name: Detonator assemblies, Non-electrical	UN No: 0360	Class Code: 1.1B
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2. Description

Supremedet-S is a non-electrical detonator which provides superior performance with its three-layer (3L) shock tube technology and delay accuracy.

3. Application

Supremedet offers endless delay timing and is a non-electrical initiation system. Energy propagates through the shock tube and initiates the detonator. During this propagation, unlike detonating cord, shock tube does not explode and do not cause desensitization of the explosives inside hole.

4. Key Benefits

- Supremedet is not influenced by electrical fields and static electricity since it is non-electrical initiation system.
- Supremedet is an ideal solution to reduce the blasting sourced environmental effects to minimum levels since it permits endless delay timing.
- Supremedet is extremely easy to handle.
- Supremedet does not desensitize the explosive column.
- The tube length of product can be adjusted as per customer demand.

5. Technical Properties

Product Type	Delay Time (ms)	Shock Tube Length	Shock Tube Dia	Shell Type, Dia (mm)	Detonator Strength	V.O.D of Shock Tube (m/sec)	Tensile Strength	Resistance to Hydrostatic Pressure
STL	17 to 200	2-300 Meters	3mm	Aluminum, 7.5mm dia	Very Low PETN	2000	30 kgf	0.3 MPa /48hrs
DTH	200 to 600				No. 8			
LP	100 to 7500				No. 8			
COMBIDET	Combination of [STL] & [DTH or LP]				Surface: Very Low PETN Inside Hole: No. 8			



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6. Packaging

SUPREMEDET-S detonators are packed in transparent labeled antistatic polyethylene plastic bags. The plastic bags are then packed in approved cardboard boxes according to product type and quantities per box. The standard boxes are given below.

LENGTH (m)	NUMBER OF DETONATORS PER PLASTIC INNER BAG	NUMBER OF PLASTIC BAGS PER BOX				NUMBER OF DETONATORS PER BOX			
		LP	STL	DTH	COMBIDET	LP	STL	DTH	COMBIDET
2	25	16				400			
3	25	12	12			300	300		
3,6	10	25				250			
4	10	24	24	24		240	240	240	
5	10	22	22	22		220	220	220	
6	10	20	20	20	20	200	200	200	200
7	10	18	18	18	18	180			
8	10		16	16	16		160	160	160
9	10		14	14	14		140	140	140
10/11	10		12	12	12		120	120	120
12	10		10	10	10		100	100	100
13	5			20	20			100	100
14/15/16/17	5			16	16			80	80
18/19	5			14	14			70	70
20/21/22/23	5			12	12			60	60
24/25/26/27	4			12	12			48	48
28/29/30/31/32	3			14	14			42	42
33/34/35/36/37	3			14	14			42	42
38/39/40/41/42/43/44/45	2			14	14			28	28
46/47/48/49/50	2			10	10			20	20

7. Recommendations for Use

7.1. Blasthole Depth

SUPREMEDET-S is used in all kinds of ground and underground blasting applications, in production and stripping operations in surface coal mining and metal mining, blasting operations in quarries, excavations in dam and highway works, in cement and limestone raw material quarries and-in special blasting applications.

7.2. Priming and Initiation

SUPREMEDET-S non-electrical detonation system consists of three different detonation systems. These systems are such as.

- SUPREMEDET-S LP, designed for underground blasts, in hole detonator.
- SUPREMEDET-S DTH, designed for ground blasts, in hole detonator.



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- *SUPREMEDET-S STL, designed for underground connection and surface blasting, delay element/connector.*
- *SUPREMEDET-S COMBIDET, designed for surface blasts, detonators are produced in combination of in hole detonator and surface delay element.*

8. Storage and Handling

Store this product in a suitably licensed magazine for class 1.1B explosives. The cases should be stacked in the manner designated on the cases.

SUPREMEDET-S has a storage life up to 2 years in an approved magazine; however, exposure to hot or cold extremes may cause the product to deteriorate prematurely. SUPREMEDET-S is best stored at temperatures between 10°C and 30°C. All regulations pertaining to the handling and use of such explosives apply.

9. Disposal

Disposal of explosive material can be hazardous. Method for safe disposal of explosives may vary depending on the specific case. Please contact a Solar representative for information on safe practices.

10. Safety

The post detonation fumes characteristics of SUPREMEDET-S make the product suitable for both underground and surface blasting applications. Users should ensure that adequate ventilation is provided prior to re-entry into the blast area. SUPREMEDET-S can be initiated by extreme shock, friction, or mechanical impact. As with all explosives, SUPREMEDET-S should be handled and stored with care and must be kept clear of flame of excessive heat.

SUPREMEDET-S must be kept clear of flame and excessive heat.

11. Disclaimer

Solar bears no responsibility for any loss or liability arising from use of the product in non-recommended environment and/or means.

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12. Approvals

Solar Explosives company has its own integrated management system ISO 9001:2015 Quality Management System, ISO 14001:2015 Environmental Management System, ISO 45001:2018 Occupational Health & Safety Management System and in an addition, ISO 10002:2014 Customer Satisfaction Management System.

13. Other Informations

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14. Notes