

Supreme

Aluminium Short Delay Detonator Aluminium Long Delay Detonator



Description & Application

The Aluminium Short Delay Detonator and Aluminium Long Delay Detonator has strength 8 for safe ignition of sensitive explosives and primers. The detonators have primary charge of Lead Azide & Aluminium Powder and base charge of PETN. The detonation is pyrotechnically delayed at a predetermined time after the firing pulse is applied.

30 intervals for ASDD and 15 intervals for ALDD are provided for flexibility in choice of firing sequence.

The Aluminium Short Delay Detonator and Aluminium Long Delay Detonator are designed to provide detonation sequence for explosive in quarries, surface operations, open pit mines and construction projects.

Advantages

- Provides precise control necessary to produce accurate and consistent blasting results
- Reliably initiates all cap sensitive products.
- Reduces possibility of any mechanical damages or water hammer effect.
- Wide range of delay intervals give greater flexibility in blast design to control vibration, frequencies and fragmentation with no overlap.
- Excellent water resistance.

General Recommendations for Use

- Not intended for use in gassy environments or where dust explosions may break out.
- Always use an exploder source that can provide a current flow greater than 1.2 Amps and cut-off at 4 ms to the circuit to optimize blasting.
- Never handle or use electric detonators in the presence of static or erratic electricity or electric storm.
- Open the shorted ends of lead wire only to verify the continuity and initiate the blasting.
- Never connect Supreme ASDD and Supreme ALDD to other electric detonators with different sensitivity or blasting characteristics.

Technical Properties

	ASDD	ALDD
Identification Mark	EEL mark on plug	EEL mark on plug
Type	Short Delay Detonator	Long Delay Detonator
Shell Length	50-85 mm	50-90 mm
MOC of Shell	Aluminium	Aluminium
Detonator Strength	No. 8	No. 8
Wire Length	As per customer	As per customer
Wire Colour#	Red + White	Green + White
Wire Material	Cu or GI	Cu or GI
Wire Resistance Cu	0.05 – 0.07 Ohms / Mtr	0.05 – 0.07 Ohms / Mtr
Wire Resistance GI	0.5 – 0.7 Ohms / Mtr	0.5 – 0.7 Ohms / Mtr
Series Firing Current	1.2 A for 4 ms	1.2 A for 4 ms
All Firing Impulse	2.5 mJ	2.5 mJ
No Firing Current	0.18 A for 5 minutes	0.18 A for 5 minutes
Minimum Single Fire Current	0.8 A for 4 ms	0.8 A for 4 ms
Fuse Head Resistance	1.6 to 2.0 ohms	1.6 to 2.0 ohms
Use Temperature	-20°C to 60°C	-20°C to 60°C
Water Resistance	Excellent	Excellent
Resistance to Hydrostatic Pressure	3 Kgs for 48 Hours	3 Kgs for 48 Hours
Insensitivity to Impact	2 Kgs drop from height of 0.4 Mtr	2 Kgs drop from height of 0.4 Mtr
Drop Test	from 5m height	from 5m height
Jolt Test	60 jolts / min from 150 mm height for 30 minutes	

Other lead wire colour can be given on request.

Supreme

Aluminium Short Delay Detonator
Aluminium Long Delay Detonator



GI Wire

PACKING (ASDD)

Copper Wire

Length	Qty./ Case	Qty./ Bundle	Qty./ Wrapping	Gross Wt.	Net Wt.
1.5 Mtr.	1000	25	50	14	12
1.8 Mtr.	1000	25	50	18	16
3 Mtr.	750	25	25	20	18
4.5 Mtr.	500	25	25	17.5	15.5
5 Mtr.	500	25	25	19	17
6 Mtr.	500	25	25	22	20
8 Mtr.	250	10	10	15	13
10 Mtr.	250	10	10	17	15
12 Mtr.	200	10	10	15	13

Length	Qty./ Case	Qty./ Bundle	Qty./ Wrapping	Gross Wt.	Net Wt.
1.5 Mtr.	1000	25	50	18.5	16.5
1.8 Mtr.	1000	25	50	21	19
2 Mtr.	1000	25	50	23	21
3 Mtr.	750	25	25	23	21
4 Mtr.	500	25	25	20	18
4.5 Mtr.	500	25	25	21	19
5 Mtr.	500	25	25	23	21
6 Mtr.	400	25	25	22	20
8 Mtr.	250	10	10	18	16
9 Mtr.	250	10	10	20	18
10 Mtr.	250	10	10	24	20

GI Wire

PACKING (ALDD)

Copper Wire

Length	Qty./ Case	Qty./ Bundle	Qty./ Wrapping	Gross Wt.	Net Wt.
1.5 Mtr	1000	25	50	21	19
2.0 Mtr	800	25	50	19	17
3.0 Mtr	750	25	25	22	20
4.0 Mtr	500	25	25	16.5	14.5
5.0 Mtr.	500	25	25	21	19
6.0 Mtr.	400	25	25	20	18
8.0 Mtr.	250	10	10	16	14
10 Mtr.	250	10	10	19	17

Length	Qty./ Case	Qty./ Bundle	Qty./ Wrapping	Gross Wt.	Net Wt.
1.5 Mtr	750	25	50	20	18
2.0 Mtr	750	25	50	22	20
3.0 Mtr	500	25	25	19	17
4.0 Mtr	500	25	25	22	20
5.0 Mtr.	400	25	25	21	19
6.0 Mtr.	250	25	25	16	14
8.0 Mtr.	250	10	10	21	19
10 Mtr.	200	10	10	21	19

Storage

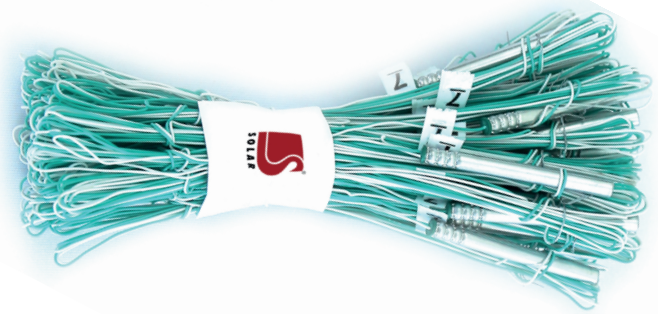
For the best results, store under moderate temperatures and dry conditions in a well ventilated, approved magazine located to conform to local laws and regulations.

Shelf Life

If stored in cool, dry, well ventilated magazine and handled properly, the maximum shelf life of Supreme ASDD and SUPREME ALDD is 2 years from the date of manufacture.

Supreme

Aluminium Short Delay Detonator
Aluminium Long Delay Detonator



Delay Timing

Delay No	ASDD (MS)*	ALDD (MS)*
1	25	300
2	50	600
3	75	900
4	100	1200
5	125	1500
6	150	1800
7	175	2100
8	200	2400
9	225	2700
10	250	3000
11	300	3500
12	350	4000
13	400	4500
14	450	5000
15	500	5500

*Modified delay series available on request

Shipping Information :

Authorised Name of Explosive : ELECTRIC DETONATOR
 Proper Shipping Name : DETONATORS, ELECTRIC for Blasting
 Class / Div. : 1.1B
 UN No. : 0030

Disposal

The destruction of explosives material is dangerous and require special training. Methods used for safe destruction may vary from case to case and will depend upon conditions and facilities available, under which the operations take place. For further information and to obtain assistance regarding the waste material and obsolete products please contact Solar representative in your area.

Disclaimer

Use of these products by anyone who lacks adequate training, experience & supervision may kill or injure. It is expressly understood that any technical advice furnished by EEL with reference to the use of its Products is given gratis & EEL assumes no obligation or liability for the advice given or results obtained, & all such advice being given is accepted at Customer's risk.

EEL makes no warranty of any kind, written or oral, express or implied, except that the Products shall meet EEL's standard specifications for such Products. Customer shall assume all risk and liability for results obtained by the use of such Products whether used singly or in combination with other products. Under no circumstances shall EEL or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits. Any dispute arising out of above information shall be dealt in accordance with the laws of Republic of India and subject to jurisdiction of Courts at Nagpur, India.
 *Images are just for reference and can be changed without any intimations

Economic Explosives Limited

📍 11, Zade Layout, Bharat Nagar, Nagpur - 440033, India

☎ +91 7122561000 📠 +91 7122560202

✉ solar@solargroup.com