

## AMAR Double Det



**Product Description :** Amar Double Det is a non electric initiation system which is a combination of Amardet In-Hole Delay Detonator crimped at one end and a Amardet Surface Delay Detonator crimped to the other end of a required length of shock tube.

Amar Double Det could be initiated by a detonator.

**Application :** Mainly used in quarries, open cast projects, civil construction projects etc. for controlled blasting.

**Safety :** Amar Double Dets provide high level of safety against initiation by static electricity, stray electrical currents and radio frequency transmissions.

These detonators have sensitive components inside the detonator. Care should be taken not to cause initiation due to impact, friction or heat.

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## Specifications

Shell Material	Aluminium
Shell Length (in-hole delay)	42 – 77 mm
Shell Length (Surface delay)	42 mm
Detonator strength	No.8
In-hole delay	Sufficient enough to initiate shock tubes reliably
Surface delay	
Water Resistance	Excellent
VOD (m/sec)	1800 +/- 100 mtrs / sec
Shelf Life	Not more than 2 years

## Advantages:

- Being non electric system, is immune to extraneous electricity sources such as stray current, static electricity charges and radio frequency energies.
- It also eliminates the risk of misfires encountered due to use of electric detonators.
- Accurate delay timing results in good blast results.
- The noise produced is very low as compared to DF.
- It is easy to connect and provides flexibility in designing delay sequence. Does not form any kinks and relatively insensitive to impact and friction as compared to detonating Fuse.
- Since it is a combination of both in-hole & surface delay detonators is very simple and easy to connect at the field.
- Reduced inventory and economical. Shock tube does not tangle. Suitable where the blasting parameters are pre determined and accurate.

## Recommendations:

- Kink should not be formed on the tube during charging operations.
- Ensure the shock tubes in connected at right angle and that the shock tubes do not cross over or lay near another shock tube. If the tubes are closer, one may damage the other and could cause misfire upon initiation.
- Never drive any vehicle over the shock tube.
- Ensure the shock tubes are not damaged while charging.
- Two manufacturer's product should not be used in a blast.

## Delay Timing

Delay No.	1	2	3	4	5	6	7	8	9
Delay Timing (ms)	200	250	300	350	499	450	500	550	600

## Packaging :

Amar Double Det Detonators are supplied in coil, packed in polythelene wrappers which are packed in fibre board boxes.

Tube length (M)	Nos / Case
Upto 4	400
5 to 10	250
11 to 18	200
16 to 25	125

## Order Instructions:

Amar double det detonators should be ordered as shown below to provide full and complete information:-  
 Amardet Double det : 250 ms\* / 17 ms\*\* / 10 mtr \*\*\*

- \* Indicates Delay Period of the in-hole delay detonator.
- \*\* Indicates delay period of the surface delay detonator
- \*\*\* Indicates the Length of Shock Tube

## Storage:

- Should be handled by qualified and authorized persons only.
- Store under dry conditions in a well ventilated approved detonator magazine.
- Do not drop and do not smoke near detonators

## Classification:

PESO : Class 6, Division 3  
 UN No. : 1.1 B 0029



## Surface Delays

S.No.	1	2	3	4
Colour of connector	Yellow	Green	Blue	Red
Delay Timing	17 ms	25 ms	42 ms	67 ms