

**SUPREME - IED**  
**INSTANTANEOUS ELECTRIC DETONATOR**  
SAFETY • QUALITY • RELIABILITY



**DESCRIPTION**

**SUPREME- Instantaneous electric detonator** is an initiator system of explosives charge that can convert an electric impulse into detonation. The detonator shell contains a base charge of PETN, Primary charge of Lead Azide, Lead Styphnate and aluminium powder.

**APPLICATION**

Initiator for blasting practices and secondary blasting (Underground, Open Pit, Quarry and Construction)

**APPEARANCE**

Light green coloured length of tinned copper wire (TCW) or galvanized iron wire (GI) of adequate gauge with a Copper or Aluminium detonator. The copper wire is PVC insulated. The assembly plug has an identification mark written (EEL) and the product is available in various lengths.

**FEATURES**

- Excellent performance with regard to accuracy and high strength
- Excellent water resistance
- Ease and convenience with regard to handling
- Lead wires stripped on ends to allow for quick connection
- Easy deployment of lead wires
- Has a protective shelf around fuse head which reduces risk of un-planned initiation through electrostatic discharge

**STORAGE**

Store under moderate temperatures and dry conditions in well ventilated approved explosives storage facility/box or approved licenced magazine.

## SHELF LIFE

When stored in cool, dry, well ventilated magazine and handled properly, the maximum shelf life of product is 24 months from date of manufacture.

## SHIPPING INFORMATION

<b>Class / Division</b>	1.1
<b>Group</b>	B
<b>UN No.</b>	0030
<b>Proper Shipping Name</b>	Detonator, Electric for Blasting

## PACKAGING

Detonator ends are shunted forward, 25 detonators made up into a bundle, two such bundles are placed in wrapped Kraft paper to make up a packet. Packets are placed inside a lined case with Kraft paper liners. Quantity per case dependant on length.

Length	Qty per Case	Qty per Bundle	Qty per Packet	Copper Wire (kg)	
				Gross Weight	Net Weight
1.5 m	1000	25	50	14	14
1.8 m	1000	25	50	17	16
2.0 m	1000	25	50	18	12
3.0 m	750	25	25	19	17

Length	Qty per Case	Qty per Bundle	Qty per Packet	Galvanized Wire (kg)	
				Gross Weight	Net Weight
1.5 m	1500	25	50	16	14
1.8 m	1500	25	50	18	16
2.0 m	1000	25	50	14	12
3.0 m	1000	25	25	19	17

## TECHNICAL PROPERTIES

<b>MOC of Shell</b>	Aluminium / Copper
<b>Class</b>	1.1B
<b>Detonator</b>	No. 08
<b>Shell length</b>	42mm
<b>Primary charge</b>	LA / LS / Aluminium
<b>Secondary charge</b>	PETN
<b>Delay range</b>	Instantaneous
<b>Normal delay interval</b>	Instantaneous
<b>Wire resistance</b>	0.05-0.07 Ohm /m (Cu) and 0.5-0.7 Ohm / m (GI)
<b>Min. series firing current</b>	> 1.20 A for 4 ms
<b>No. fire current</b>	180 ma for 5 minutes
<b>All firing impulse</b>	2 MJ (1.6 – 2.0 Ohms)
<b>Use in Temperatures</b>	-20 degrees to 60 degrees C
<b>Resistance to Hydraulic Pressure</b>	2 kg for 2 hours and 3 kg for 48 hours
<b>Insensitivity to Impact</b>	2 kg drop from a height of 0.4m
<b>Drop test</b>	From height of 5m
<b>Vibration test</b>	30 min
<b>Fuse head resistance</b>	1.6 to 2.0 Ohms
<b>Water Resistance</b>	Excellent

## SAFETY

- Always keep leg wires shorted until ready to use
- Handle with care. Damage to wires could result in misfires. Never pull off the lead wires of assemblies
- Always keep detonator pointing away from you when handling it. Never carry Electric detonator assemblies holding onto detonator
- Severe impact on detonator may result in un-planned initiation
- Never connect blast until all charging operations has been completed

**NOTE**

**SUPREME IED** may only be used by persons with adequate training, experience or under direct supervision of person who has been trained and competent.

**DISCLAIMER**

Solar Mining Services cannot anticipate or control the circumstances under which this review of information in the specific context of the intended application. Solar Mining Services will not be responsible for any damage of any nature resulting from those implied warranties, given other than those implied mandatories by local legislation.