

## 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
- Lead wires stripped on ends to allow for quick Connection and 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 or approved licensed magazine.

#### SHELF LIFE

When stored in cool, dry, well ventilated magazine and handled properly, the maximum shelf life of product is 36 months from date of manufacture.

#### SHIPPING INFORMATION

Class / Division	1.1
Group	B
UN No.	0030

#### 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 is dependent on length.

## TECHNICAL PROPERTIES

COPPER WIRE (kg)					
Length	Qty per Case	Qty per Bundle	Qty per Packet	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

GALVANIZED WIRE (kg)					
Length	Qty per Case	Qty per Bundle	Qty per Packet	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

MOC of Shell	Aluminium	Copper
Class	1.1B	
Detonator	8D	
Shell length	42- 80mm	
Primary charge	LA/AL	
Secondary charge	PETN	
Delay range	Instantaneous	
Normal delay interval	Instantaneous	
Wire resistance	0.05-0.07 Ohm /m (Cu) 0.5-0.7 Ohm / m (GI)	
Min. series firing current	> 1.20 A for 4 ms	
No. fire current	180 ma for 5 minutes	
All firing impulse	2 MJ (1.6 – 2.0 Ohms)	
Use in Temperatures	-20 degrees to 60 degrees C	
Resistance to Hydraulic Pressure	2 kg for 2 hrs	
Insensitivity to Impact	3 kg for 48 hrs	
Drop test	Pass 5m height	
Vibration test	30 min	
Fuse head resistance	1.6 to 2.0 Ohms	
Water Resistance	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 complete

## 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.

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