

INSTANTANEOUS COAL ELECTRIC DETONATORS



Product Description:

Coal Electric Detonators are permitted detonators for use in underground coal mines in gassy **and** coal dust atmosphere for blasting coal after it is under cut, mid cut or overcuts. These detonators are approved by DGMS for use in gassy seams of Degree I, II & III gassiness. It offers a reliable means of controlled, simultaneous initiation of explosive charge in the shot hole. Coal Electric Detonators are of No.6 strength.

These detonators consist of Copper / Zinc Copper coated steel shells filled with desired dosage of PETN as base charge and a mixture of NHN as prime charge.

NHN is flame sensitive while PETN is sensitive to the shock wave generated by NHN. These detonators are fitted with a fuse head having firing precision and consistency. The fuse head assembly is crimped to the detonator shell using a PVC plug that offers good resistance to ingress. The PVC coated lead wires have good abrasion strength. The flame generated by fuse head initiates NHN mixture which in turn detonates the PETN base charge.

Premier Explosives limited

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Application:

For safe simultaneous blasting in underground coal mine in gassy and coal dust atmosphere.

Advantages:

Reliable means for simultaneous initiation in under ground coal mines.

Recommendations for use:

Electric detonators should only be used by personnel who have adequate knowledge in handling and use of explosives.

Electric Detonators contain sensitive components and must be handled with care at all times.

While using, the total circuit resistance to be monitored to ensure recommended in flow of current.

Do not use 2 manufacturers product in the same blast.

Guidance provided by statutory authorities to be adhered to strictly.

Storage:

Store under moderate And dry conditions in a well ventilated approved magazine



Classification:

PESO : Class 6, Division 3
UN No : Class 6, UN No. 0030

Safety:

- Designed not to ignite methane / coal dust atmosphere.
- The shells are of copper / zinc copper coated steel shells
- Product tested by CMRI
- Product is approved by DGMS for use in u/g coal mines of Degree I, II & III gassiness.
- The cases should be handled carefully not to cause accidental initiation by intense impact, friction or heat.
- Never force a detonator into explosives cartridge. Always use a pricker made of non-sparking material to pierce the cartridge while priming.
- Never hold the detonator shell while unfurling the mine for use. Always hold the lead mines 5 cms away from the crimped portion to avoid sudden pressure coming on the fuse head assembly.
- Do not handle electric detonators while wearing Woolen or Synthetic clothes or in the vicinity of cell phones, walkie – talkie etc.
- Always keep the ends of lead wires or blasting cable shunted and open just prior to connections. Disconnect the firing cable from the exploder if circuit requires rechecking.
- Do not carry out charging of explosives during an approaching storm or when there is lightening near the blast area.
- Do not attempt to fight explosive fire.

Specifications

Shell Material	Copper / Zinc – copper coated steel shells
Shell length	37 mm
Strength	No.6
Shelf Life	2 years under recommended storage conditions.
No fire current	180 mA for 300 seconds
Minimum All fire currents	0.8A
Minimum series firing current	1.5 A
Firing Impulse	2.4 mWs / ohm
Fuse head resistant	1.6 to 2.4 ohm
Lead wire material	Galvanised Iron
Lead Wire Colour	Green
Standard lead wire length	1.8, 2.0,2.2, 2.5 & 3.0 mtrs

Packaging :

25 Nos are made into a bundle ensuring that all that lead wires ends are shunted and folded within the bundle. Two such bundles are wrapped in a kraft paper to form a packet. Required number of packets are placed in a corrugated fiber board case.

Specifications

Wire Length	1.8	2.0	2.2	2.5	3.0
No. of Detonators	1500	1250	1250	1250	1250