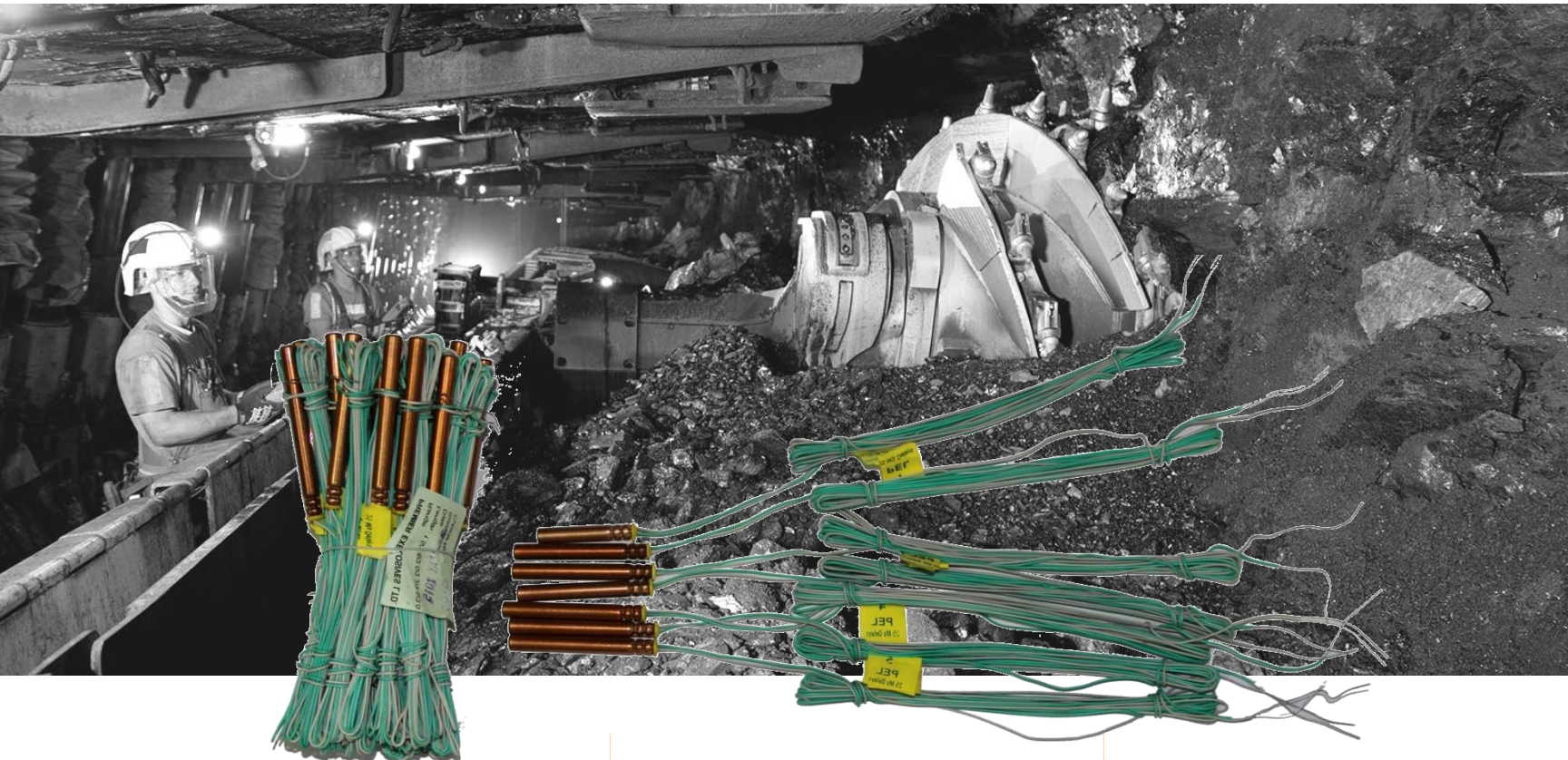


COAL DELAY DETONATORS



Product Description:

These detonators consist of a copper / zinc copper coated steel shell filled with desired quantity of PETN as base charge And a mixture of NHN as primary charge. NHN is sensitive to flame while PETN is sensitive to the shock wave generated by the NHN mixture. A pyrotechnic delay element is placed above NHN mixture which provides requisite delay. Judicious use of delay detonators result in better fragmentation, greater vibration control and causes lesser damage to roof of the coal seam. These are fitted with an electric fuse head having firing precision and consistency. The fuse head assembly is crimped to the detonator shell using PVC plug that offers good resistance to water ingress.

The lead wires used have good abrasion resistance. The bare ends of the lead wires are shunted for protection against stray currents. The flame produced by the fuse head initiates the delay element which conveys the flame to NHN mixture which in turn detonates PETN base charge. Coal delay detonators are permitted delay detonators used for blasting off-the solid (BOS) in coal and approved by DGMS for use in gassy seams of Degree I, II & III gassiness. The product is available in delay numbers 0,1 to 6 with a nominal delay interval of 25 ms between delays. The delay numbers are embossed at the bottom of the shell and displayed with tags on the lead wires also.

Premier Explosives limited

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Application:

For reliable delay blasting is underground coal mines in gassy and coal dust atmosphere.

Advantages:

Reliable means of delay initiation in underground coal mines, which provides required free face for successive rows of holes in solid blasting.

Recommendations for use:

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

Delay 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.

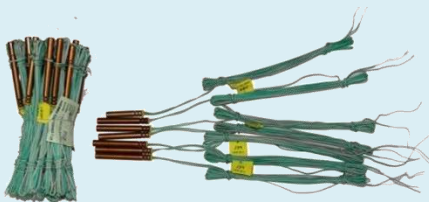
Guidance provided by statutory authorities to be adhered to strictly.

Storage:

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

Classification:

PESO : Class 6, Division 3
UN No : Class 1.1 B, 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	42 to 70 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	2.2 & 2.5 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.

Wire Length	2.2	2.5
No. of Detonators	1500	1250