

Products for Seismic Prospecting

Explosives Division of GULF OIL Corporation Ltd. manufactures seismic detonator and slurry explosive in couplable plastic tube for seismic prospecting work.

Seismic Electric Detonators are specially designed to meet the stringent requirements of seismic prospecting work. The unique feature of these detonators is that they have extremely low reaction times and they fire within 1 millisecond after passage of requisite electrical energy. The lead wires have extra thick PVC insulation, which provides good abrasion resistance and desired electrical properties for use in watery drillholes.

Classification	Class 6 Division 3
Shell Material	Aluminum
Shell Length	57 mm
Detonator Strength	No. 8
Leadwire Material	23 SWG Copper Wire
Leadwire Diameter (Outer)	1.55 ± 0.05 mm
Lead Wire Resistance	0.06 to 0.065 ohms/m
Leadwire Colour	Orange / Orange
Fusehead Resistance	1.0 – 1.3 ohms
Fusehead Reaction Time	Less than 1 millisecond
Plug	Neoprene rubber
No-Fire Current	250 mA for 300 seconds
All Fire Current	7 – 10 A
Impulse	49 mWs/ohm
Anti-Static Protection	35 kv / 750 pico farads
Underwater Pressure Test	3 kg / cm² for 24 hours (equivalent to 30 m hydrostatic head)



Superdyne CPT is a high strength cap-sensitive slurry explosive in couplable plastic tubes that can be used in blasting applications such as seismic prospecting and underwater blasting works. **Superdyne CPT** gives excellent blast results under tough field conditions. It has excellent water resistance and hence most suitable for use in watery borehole conditions.

Superdyne CPT has high strength and high velocity of detonation, which are very essential for generating the desired seismic pulse in seismic prospecting work and good fragmentation in hard rocks when especially used in underwater blasting applications. The superior gel structure ensures that the strength and sensitivity are retained when stored for long periods.

Special features of Superdyne CPT

- Does NOT contain any self-explosive ingredients and hence safe.
- Does NOT contain any headache causing ingredients.
- Relatively insensitive to accidental initiation due to impact, friction and fire. Hence very safe during handling, usage, transportation and storage.
- High strength and high velocity of detonation (VOD) ensures good seismic signals.
- Excellent water resistance – highly suitable for use in watery boreholes.
- Excellent fume characteristics – upon detonation generates very low levels of toxic after-blast fumes.
- Superior gel structure eliminates possibility of leakage during the recommended shelf life.

Type	Slurry explosive filled in Couplable Plastic Tubes (CPT)
Category	Class - 2
Sensitivity	Cap-sensitive (to No.6 strength detonator and 10 gms/m detonating cord)
Density	1.15 g/cc
VOD	5000 ± 300 m/sec (under confinement)
Hydrostatic Head	Suitable for use upto 50-52 meters of hydrostatic head



Contact Information

For more information, please contact:



**GULF OIL Corporation Limited
Explosives Division**

Kukatpally, Post Bag No. 1, Sanathnagar IE (PO)
Hyderabad 500018, Andhra Pradesh, India

Phone: +91 (40) 23810670 to 79

Fax: +91 (40) 23700747, 23700772

Email: marketing@idlind.com

Internet: <http://www.gulfoilcorp.com>

Features and specifications mentioned in this brochure are subject to change due to continuous improvements through research and development.

Packaging

Seismic Electric Detonators are supplied in folded wire format. Detonators are bundled and wrapped in kraft paper to form a packet. Requisite number of packets are placed in a corrugated fiber board case. Markings on the case indicate manufacturer's name, product name, lead wire length, case number, date of manufacture, net weight and gross weight. Quantities packed are as under:

Lead Wire Length (m)	Quantity per Case (nos.)
1.8 to 2.5	1000
3	800
6	500
9, 10	250
25	100
40, 45	50

Against specific order, Seismic Detonators are supplied with wire wound on spool. Contact manufacturer for details.

Superdyne CPT (76 mm and 63 mm) is packed in corrugated fiber board cases. Markings on the case indicate manufacturer's name, product name, cartridge diameter, cartridge weight, batch number, case number, date of manufacture, net weight and gross weight. Cartridge count per case is as under:

Cartridge Weight (kg)	CPTs per Case (nos.)	Case Weight (kg)
0.5	50	25
1.0	25	25
2.0	10	20
2.5	10	25

Precautions

- Do NOT subject detonators to impact, friction and fire.
- NEVER force a detonator into explosive cartridge. Always use pricker made of non-sparking material to pierce the wrapper while priming.
- NEVER hold the detonator shell while unfurling the wire for use. Always hold the leadwire about 5 cms away from crimp portion to avoid any pressure coming on the fusehead assembly.

- Do NOT handle electric detonators while wearing woolen or synthetic clothes or in the vicinity of Cell Phones, Walkie-Talkies.

- Always keep the ends of leadwire or blasting cable shorted and unhook just prior to connections. Disconnect the blasting cable from the exploder if circuit needs to be checked.

- Never carry out explosives charging during an approaching storm and lightning activity in the blast area. Vacate the blast area and resume operations only after the storm has passed.

- Do NOT attempt to fight explosive fires.

Statutory Classification and Shipping Information

	Seismic Detonator	Superdyne CPT
Petroleum & Explosives Safety Organization (PESO), Government of India	Class 6 Division 3	Class 2
IMDG Classification:		
Class	1	1
Division	1.1	1.1
Group	B	D
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Stowage Category	II Type 'C'	II Type 'B'



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Division of GULF OIL Corporation Limited
Hyderabad 500018