

Superdyne

Explosives Division of GULF OIL Corporation Ltd. manufactures **Superdyne**, a high strength cap-sensitive aluminized slurry explosive suitable for use in most types of blasting applications using small and medium diameter drillholes of 32 mm to 110 mm. Its high strength and high velocity of detonation ensures good fragmentation in hard strata and Superdyne gives excellent blast results in quarrying, underground stoping, road cutting, canal excavation and secondary blasting. Superdyne is highly suitable for tunneling, underground excavations in civil construction and seismic prospecting work.

Superior rigid gel enables cutting of cartridges without causing any spillage of gel. Rigid gel also ensures good handling and poses no difficulty in loading upward facing drillholes. The superior gel structure ensures that the strength and sensitivity are retained when stored for long periods.

Special Features

- Does NOT contain any explosive ingredients.
- 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 blast results.
- Excellent water resistance - can be used 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. Upon long storage, product becomes innocuous, and thus safe.

Specifications

Type	Aluminised Slurry
Sensitivity	Cap-sensitive (sensitive to No. 6 strength detonator and 10 gms / meter detonating cord)
Density	1.18 - 1.25 g/cc
VOD	3800 - 4600 m/sec (unconfined)



Contact Information

For more information, please contact:



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



Packaging

The cartridges are packed in polythene bags and placed in a corrugated fiber board case. 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 Diameter	Cartridge Weight	Cartridge Type
25 mm	125 and 140 gms	Plastic film clipped at both ends, Blow Moulded Tube with cap and Paper tubes
32 mm	200 gms	Plastic film clipped at both ends, Blow Moulded Tube with cap and Paper tubes
40 mm	300 and 715 gms	Plastic film clipped at both ends, Blow Moulded Tube with cap and Paper tubes
50 mm	1000 gms	Plastic film clipped at both ends, Blow Moulded Tube with cap
63 mm	1.5625 kg	Plastic film clipped at both ends
83 mm	2.5 kg	Plastic film clipped at both ends
100 mm	3.125 kg	Plastic film clipped at both ends

Precautions

- Do NOT subject explosives and detonators to impact, friction or fire.
- NEVER force a detonator into explosive cartridge. Always use pricker made of non-sparking material to pierce the wrapper while priming.
- Do NOT attempt to alter the composition of the explosive.
- Do NOT tamp the primer cartridge, as it contains a detonator.
- During charging, ensure cartridges are charged in a continuous column in the drillhole.

- In below ground applications, ensure adequate dilution of blast fumes before entering the work area.

- Do NOT carry out charging of explosives 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

Petroleum & Explosives Safety Organization (PESO), Government of India

Class 2

IMDG Classification:

Class	1
Division	1.1
Group	D
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