

Emulboost

High Energy Emulsion Booster

Explosives Division of GULF OIL Corporation Limited manufactures **Emulboost**, a high-energy emulsion booster. **Emulboost** is a water-in-oil emulsion explosive, in which the oxidizers and fuel ingredients are in liquid form. The oxidizers are dispersed as micro droplets in a continuous and thin layer of fuel (oil). This results in a close and intimate contact of ingredients present, leading to a high order detonation reaction during their usage, resulting in higher velocity of detonation and higher energy release.

Emulboost has all the advantages associated with emulsions such as “near-ideal” detonation characteristics and ability to perform in cold temperatures. It is stable, and can be stored for 6 to 8 months under recommended conditions. It has excellent water resistance, and can be used in watery drillholes.

The explosive is filled in specially designed plastic containers having a cap-well for priming detonator, and a cord tunnel for priming with detonating cord. The cord tunnel is continuous, while the cap-well has a step at the top side of the booster to prevent the detonator from passing through. A recessed groove at the base of the booster offers protection to the lead wire or shocktube of the detonator.

Emulboost can be initiated with No.6 strength detonator or detonating cord having an explosive core of 10 g/m. However, use of No. 8 strength detonator is recommended for reliable initiation of the booster.

Emulboost is an efficient primer for booster-sensitive explosives in view of its density and high velocity of detonation resulting in adequate detonation pressure.

Emulboost is recommended for initiating booster-sensitive explosive in the drillholes in all surface mines, quarries, civil construction, and in underground metal mines in ring blasting, largehole stoping, vertical crater retreat (VCR) blasting applications.

Emulboost is devoid of any self-explosive ingredients, and hence safe. It is relatively less sensitive to accidental initiation due to impact, friction and exposure to high temperature, and hence safe to handle, transport, store and use.

Emulsion explosives are degradable. Any unfired explosive will deteriorate easily, and the possibility of an accidental initiation is remote. On extended storage, they become innocuous, and thus safe.

Priming Procedure

Priming with electric and shock tube based non-electric detonator

1. Insert the detonator into the cord tunnel from the top, pass it through, and pull it out of the other end.

2. Insert the detonator into the cap-well and gently push it till the stepped end so that detonator is snugly placed inside the booster (as shown in photo).

3. Alternately, insert the detonator gently into the cap-well and push it till the stepped end so that it is snugly placed inside the booster. Without leaving any slack, fold back the lead wire or shock tube so that it lies along the side of the booster casing. Firmly tape the lead wire or shock tube to the booster.

4. Lower the assembly into the drillhole.

Priming with detonating cord

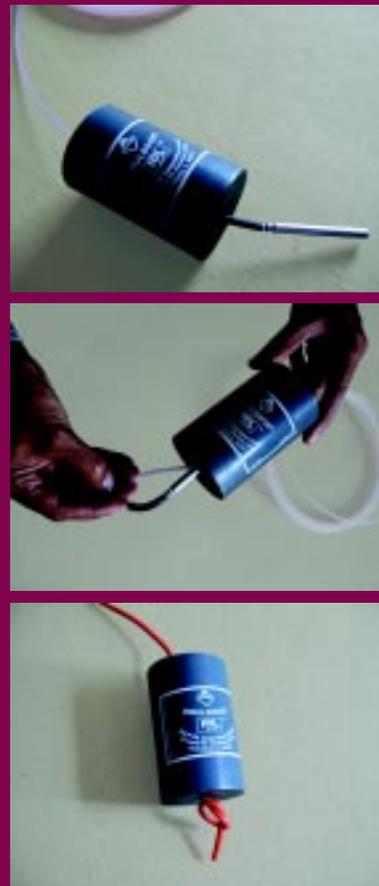
1. Pass the free end of the detonating cord through the cord tunnel and pull it out from the other end.

2. Tie the free end of the detonating cord into a knot so that it prevents the booster from sliding through, and rests on the knot (as shown in photo).

3. Alternately, pass the detonating cord through the cap-well and back through the cord tunnel. Tie a knot so that the cord forms a loop through the booster.

4. Lower the assembly into the drillhole.

5. Where additional boosters are to be loaded, thread the detonating cord through the cord tunnel and allow it to slide down along the cord by gravity.



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.

Specifications

Density:	1.15 ± 0.02 g/cc
Velocity of Detonation:	5500 ± 500 m/sec
Detonation Pressure:	70 - 80 kilo bar

Weight and Dimensions

Weight (grams)	Diameter (mm)	Height (mm)
125	46	92
175	50	112
250	58	105
400	67	110
500	75	110

Packaging

Emulboost is packed in corrugated fiber board cases. Markings on the case indicate manufacturer's name, product name, booster weight, case number, date of manufacture, net weight and gross weight.

Weight (grams)	Quantity per case (nos.)	Weight (kg)
125	200	25
175	100	17.5
250	100	25
400	50	20
500	50	25



Precautions

- Do NOT subject explosives and detonators to impact, friction or fire.
- NEVER force a detonator into the explosive.
- Do NOT attempt to scrape the explosive material or attempt to enlarge the cap-well or cord tunnel for accommodating detonator while priming.
- Do NOT 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

Petroleum & Explosives Safety Organization (PESO), Government of India	Class 2
IMDG Classification:	
Class	1
Division	1.1
Group	D
U.N Number	0241
Page Number	1120
Stowage Category	II Type 'B'

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