

TECHNICAL DATA SHEET



HiBoost™ – High Velocity Emulsion Booster

Description

HiBoost™ is a uniquely formulated emulsion-based explosive booster. HiBoost™ has both a high detonation pressure and a high detonation velocity to maximize priming performance. HiBoost™ will safely and reliably initiate all boost-sensitive explosives and is itself safely and reliably initiated all types of detonator assemblies.

Features & Benefits

HiBoost™ products have been developed to provide the following features and benefits:



- HiBoost™ is available in two packaging types, film or plastic shell, based on the customer's preference and application.
- HiBoost™ is specially formulated to overcome the performance limitation of conventional emulsion-based explosives. It can reach higher detonation velocities and provide excellent priming efficiency without the use of high explosive components such as TNT, RDX etc, making it safer than conventional cast booster.
- HiBoost™ has excellent water-resistance for use in wet holes. It can also minimize the environmental issues related to incomplete detonation (ie. Nitrous oxides).
- HiBoost™ can be used in a greater range of ground temperatures than conventional cast boosters, providing additional convenience for customers.

Technical Data

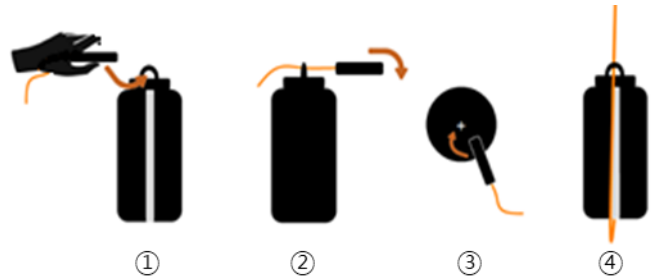
HiBoost™	
Velocity of Detonation [VOD] (m/s) ^[A]	6,500±500
Density (g/cc)	1.20±0.02
Relative Weight Strength (%) ^[B]	109
Relative Bulk Strength (%) ^[B]	168
Water Resistance	Excellent
Minimum Temperature	Down to -20°C
Detonation Pressure (GPa)	13.0
Shelf-Life	1 year

[A]: Confined @ 50mm diameter

[B]: ANFO = 100% @ 0.80g/cc, calculated with 100MPa

Usage Instructions

Priming Requirements



HiBoost™ products can be reliably initiated by all standard high strength (No. 8) electronic, non-electric and electric detonators.

Charging

Load the HiBoost™ product into the blast hole with the detonator end facing towards the borehole collar. HiBoost™ should be lowered to the bottom of the blast hole in dry, de-watered and wet hole. For wet holes, ensure that the charging hose is lowered down to the bottom of the hole and that pumping of bulk explosive has begun before the hose is withdrawn. This Practice will ensure that the HiBoost™ product is fully surrounded by the bulk explosive charge. Once pumping is complete, pull the HiBoost™ product up 50-100 cm to ensure that it is fully coupled in bulk explosive product, not the muddy mixture that may exist at the bottom of the hole.

Using Temperature

HiBoost™ products may be used at temperatures ranging from -20°C to 95°C. For advice on use of higher temperature conditions, please contact your Hanwha technical representative.

Packaging

HiBoost™ Packaging details are as follows:

HiBoost™		
Type	Film	Plastic shell
Diameter (mm)	50	72
Length (mm)	250	158
Net Weight (g/unit)	550	550

* The error range of weight/cartridge in the table above is -3 to +5%

HiBoost™

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Hazard classification

Authorized Name	HiBoost™
UN No.	0241
Classification	1.1D
Proper Shipping Name	EXPLOSIVE, BLASTING, TYPE E

Safety

When using HiBoost™, avoid contact with eyes or skin and wash hands thoroughly after handling. Keep HiBoost™ away from sources of heat, sparks, flame, hot surfaces and avoid mixing with combustibles or incompatible materials.

Storage

All explosives are classified as Dangerous Goods and must be stored and secured in accordance with relevant local and national regulations.

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The use of Product is an intrinsically dangerous activity and must be restricted to qualified and trained users in possession of any necessary permits and licenses, and comply at all times with appropriate safety and risk prevention measures and with applicable laws.

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