POLAR HANFO

TECHNICAL DATA SHEET – BULK EXPLOSIVES

POLAR HANFO

Nitro Sibir Australia's range of bulk products includes blends of emulsion enhanced ANFO (Heavy ANFO or HANFO) which are designed for dry and dewatered blastholes.

APPLICATION

POLAR HANFO has been designed for use in open cut mining where additional energy is required or where a level of water resistance is needed.

The product is also suitable for use in dry and dewatered blastholes. Prior to use in dewatered blastholes, the water recharge rates should always be determined.

POLAR HANFO is not suitable for use in reactive or hot ground conditions.

FEATURES

Nitro Sibir Australia provides POLAR HANFO in bulk through specialised truck delivery systems.

Product density and energy can be varied by modifying the ANFO:Emulsion ratio to suit the specific application needs.

Increasing the emulsion content of the blend significantly increases the water resistance of the product.

RECOMMENDATIONS continued…

Sleep Time – Under ideal conditions, POLAR HANFO has a maximum sleep time of 14 days to minimise any adverse outcomes. The product sleep time is influenced by a number of factors including blasthole conditions, diameter, ambient weather and method of initiation.

Ground Conditions – POLAR HANFO is not suitable for use in conditions where reactive sulphides are present. Ammonium nitrate based explosives may react with pyritic material and create potentially hazardous situations. For applications in ground outside recommended conditions, consult a Nitro Sibir Australia representative.

SAFETY

First Aid – Please refer to the Safety Data Sheet for POLAR Bulk Emulsion Blends, Nitro Sibir Ref BE03.

Safety – All explosives are classified as dangerous goods and must be handled and stored with care. Misuse may result in personal injury and/or damage to property. Explosives should only be handled by persons with the appropriate technical skills, experience, training and licences.

Transportation and Storage – All explosives must be handled, transported and stored in accordance with all applicable state and federal regulations.

PHYSICAL PROPERTIES

Product Name	POLAR HANFO 20	POLAR HANFO 30	POLAR HANFO 40
Density (nominal) (g/cm^3)	0.95	1.10	1.25
Minimum Hole Diameter (mm)	102	102	127
Maximum Charge Length (m)	55	50	50
Blasthole Condition	Dry	Dry / Dewatered	Dry / Dewatered
Delivery Method	Auger	Auger	Auger
Typical VOD (m/s)	4000-5700	4100-6000	4500-6000
Relative Weight Strength	90-92	88-89	86-87
Relative Bulk Strength	108-110	119-121	131-133

RECOMMENDATIONS

Priming – A cast booster of minimum 150g should ideally be used to prime POLAR HANFO.

In cases where there is a chance of column disruption, additional boosters should be used.

TDS: BE04 VERSION: 2.0 LAST UPDATED: 07/24

---- END OF TDS ----