

POLAR QSX Bulk Emulsion Blends



TECHNICAL DATA SHEET – BULK EXPLOSIVES

POLAR QSX Bulk Emulsion Blends

POLAR QSX bulk emulsion blends are designed for use in all surface mining operations.

APPLICATION

POLAR QSX is suited to all surface mining operations. Its premium formulation ensures that it will perform exceptionally well in all conditions and rock types.

The priming requirements for the product is as follows:

- POLAR QSX – Minimum 150gm cast primer

POLAR bulk explosives can be manufactured for use in hot and reactive ground. Please contact Nitro Sibir Australia if an inhibited formulation is required.

Standard formulation POLAR bulk emulsion explosives are for use in ground temperatures up to 55 degrees Celsius.

FEATURES

- High water resistance
- Premium materials used in manufacture
- Low water content

PHYSICAL PROPERTIES

Explosive Type: QSX	Bulk Emulsion Blends
Nominal Density (g/cc)	0.85 – 1.20
Velocity of Detonation (m/s)	4500 - 5600
Hole Diameter (mm)	76 - 311
Nominal Total Energy (M/kg)	2.11 – 2.95
Explosive Class: 1.1D	UN Number: UN 0241

STORAGE AND HANDLING

The emulsion matrix must be stored and transported in accordance with the requirements set out in the regulations mandated in each state.

The matrix, whilst classified as a Class 5.1 Ammonium Nitrate Emulsion, is a security risk substance and must therefore be securely transported and stored. Only authorised persons are permitted to have access to and handle the product.

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 must only be handled by persons with the appropriate technical skills, experience, training, licences and authorisation.

First Aid: Please refer to the Safety Data Sheet, Nitro Sibir Australia Reference: SDS BE07, for detailed information on treatment of persons exposed to and affected by this product.

SHELF LIFE

Gassed explosive blend products have a shelf-life of ten (10) days from the time they are loaded into the blast hole.

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DANGEROUS GOODS CLASSIFICATION

Authorised Product Name	POLAR QSX Bulk Emulsion Blends
Correct Shipping Name	Explosive, Blasting, Type E
Explosive Class 1.1D	UN Number: UN0241



TDS: BE06

VERSION: 1.0 LAST UPDATED: 02/23

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