

POLAR PX Series – PX, PXI and PX Plus



TECHNICAL DATA SHEET – PACKAGED EXPLOSIVES

POLAR PX Series

POLAR PX Series cartridge emulsion explosives are detonator sensitive, water resistant products specifically formulated for use in surface and underground rock blasting operations.

POLAR PXI is the inhibited form of POLAR PX and POLAR PX Plus is formulated to produce higher gas energy.

APPLICATION

POLAR PX Series products are ideal for blasting rock and initiating columns of bulk explosives in small diameter blast holes (up to 102mm diameter holes).

POLAR PX Series products can be reliably initiated with detonating cords containing at least 10 g/m PETN and all commercially manufactured detonators of strength No.8 or greater.

POLAR PXI is specifically formulated for use where known reactive ground exists and for use in hot holes where temperatures are elevated above 55°C. When using POLAR PXI products in reactive or hot ground, the AEISG Code of Practice for Elevated Temperature and Reactive Ground must be applied.

POLAR PX Plus is specifically designed for high gas energy output applications required in underground blasting.

FEATURES AND BENEFITS

- POLAR PX Series products have high water resistance and can be used in wet and dry blastholes.
- Dead press potential is minimised due to inclusion of high strength micro balloon spheres in formulation.
- Premium grade surfactants provide a substantially longer shelf life.
- High VOD formulation makes POLAR PX and effective primer for explosive columns.
- Inhibited POLAR PXI range is safe to use when blasting in hot and/or reactive ground.

PHYSICAL PROPERTIES

Explosive Type	AN-based Emulsion
Density	1.15 g/cm ³
VOD	4600 - 5300 m/s
Nominal Total Energy	3.3 - 3.8 MJ/kg



STANDARD PACKAGING GUIDELINES

PRODUCT	DIAMETER (MM)	LENGTH (MM)	CARTRIDGE MASS (G)	CARTRIDGES / 25KG BOX
POLAR PX Plus 25 x 200	25	200	119	209
POLAR PX Plus 25 x 700	25	700	424	59
POLAR PX Plus 32 x 200	32	200	188	133
POLAR PX Plus 32 x 700	32	700	657	38
POLAR PX 55 x 400	55	400	1089	23
POLAR PX 65 x 400	65	400	1471	17
POLAR PX 80 x 400	80	400	2273	11

* Variations are available on special order.

STORAGE AND HANDLING

POLAR PX Series products are classified as Explosive, Blasting Type E, Class 1.1D, UN0241 and must be stored correctly as per AS2187. They have a shelf life of one (1) year when stored under ideal conditions.

These products contain explosive material which, while relatively insensitive to accidental initiation by shock, friction or mechanical impact, should be handled with due care appropriate to a detonator sensitive explosive.

Security – It is essential that records of receipt, dispatch and use of all explosive product be maintained. A robust process of product reconciliation must be in place. Supply of explosives can only be permitted to suitably authorised and licenced persons with the appropriate skills, experience, training and qualifications.

SAFETY

First Aid – Refer to the Safety Data Sheet for POLAR PX Series, Nitro Sibir Australia reference SDS PE07.

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.



TDS: PE07

VERSION: 1.0
---- END OF TDS ----

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