

# POLADYN 31 ECO - Nitroester Dynamite Explosive

## DESCRIPTION

Poladyn is a traditional dynamite explosive for normal and extreme blasting conditions in surface and underground mines. Poladyn's density and energy provides consistently high detonation velocity minimising gap sensitivity and hole propagation problems. Suitable for demolition works requiring the need for small diameter holes & concentrated blast patterns. Not to be used in hazardous environments where flammable gasses and/or dust may be present.



## APPLICATION

Poladyn has excellent water resistant characteristics and high density making it suitable for wet holes and hard ground conditions in surface and underground mining. Poladyn can be used effectively with both detonator and non detonator sensitive explosives as a bottom, top primer and secondary in hard seams.

Diameter	Length	Stick Weight	Box Qty	Box NEQ
28mm	220mm	200g	120	24kg
Box Dimensions (LxWxH): 40cm x 30cm x 24cm				

Alternative sizes packaged in paper wrap, plastic film or plastic cartridge on request.

## RECOMMENDATIONS

### Products for reliable initiation:

- Detonating cord (min 6gm/m) over the full length
- Electric, Non-Electric, Plain & Electronic Detonators\*  
\*Detonators with a minimum 0.6g base charge
- Suitable for underwater blasting maximum 30 metres

## PRODUCT CLASSIFICATION

Shipping Name	EXPLOSIVE, BLASTING, TYPE A
UN #	0081
Classification	1.1D
CE Certificate	0601/99
Notified Body	0589

## SAFETY & STORAGE

Explosives should be handled by trained, authorised persons only. Avoid damage to any part of the component and ensure care is taken to protected from extreme impacts, friction & heat sources. "DO NOT" attempt to de-construct products which may cause premature detonation.

Poladyn should be kept separate from detonators & initiation articles in a cool, dry, well ventilated licensed magazine when not in use. Stored in typical conditions, Poladyn has a 12 month product warranty from the date of manufacture. Stocks should be frequently rotated in order to use the older products before the new.

## TECHNICAL

VOD	5000 m/s (32mm plastic pipe)
Oxygen Balance	+4.8%
Heat of Explosion	3973 kJ/kg
Gas Volume	883 L/kg
Specific Energy	1001 kJ/kg
Density	1.40 g/cm <sup>3</sup>
Trazul Test	380cm <sup>3</sup> (average)
Relative Weight Strength	80 (% RDX)
Energy Concentration	5364 kJ/L
Storage Temperature	5°C to 30°C
Usage Temperature	- 20°C to 50°C
Consistency	Plastic / Putty
Box Packing	Paper wrapped
Shelf Life	12 months from date of manufacture

\*Measurements provided are nominal and may differ, further information regarding tolerances are available on request.

office@brexco.co.uk +44 (0) 1134 680 680 www.brexco.co.uk

BREXCO LTD | 4230 Park Approach | Thorpe Park | Leeds | LS15 8GB | UK

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