



# POLADYN 31ECO

NITROESTER ROCK EXPLOSIVE  
WATER-RESISTANT  
ECOLOGICAL

## Application:

Poladyn 31ECO is destined for use in underground mines and open-pit mines as a rock explosive. It can be loaded to dry and wet blasting holes. Poladyn 31ECO can not be used under coal dust and/or methane explosion hazards.

## Properties:

PARAMETERS	POLADYN 31ECO
Oxygen balance [%]	4,8
Heat of explosion [kJ/kg]	3 973
Concentration of energy [kJ/dm <sup>3</sup> ]	5 364
Volume of gaseous products of explosion [dm <sup>3</sup> /kg]	883
Specific energy [kJ/kg]	1 001
Consistency	plastic
Density [g/cm <sup>3</sup> ]	1,40 ± 0,14
Trauzl test [cm <sup>3</sup> ], average	380
RWS [%Hx], minimum	80
VOD [m/s], minimum (in cartridges)	>2000 m/s (ø 25÷32 mm) >4500 m/s (> ø 32 mm)
VOD [m/s] (plastic pipe ø 32 mm)	5 000
VOD [m/s] (steel pipe ø 34 mm)	6 000

## Packaging:

Poladyn 31ECO may be used as cartridges:

- in paper (ø 25÷38 mm)
- in PE foil (ø 36÷120 mm)
- in plastic tubes (ø 25, ø 29, ø 32, ø 39 mm)

The cartridges in paper are packed in plastic bags and then in to cardboard boxes. The cartridges in PE foil and plastic tubes are packed directly in cardboard boxes. The boxes are arranged on pallets and stretch wrapped.

## Storage terms:

Storage temperature from 5°C to 30°C.

## Usage terms:

Temperature of use from -20°C to 50°C.

Guarantee period from the production date:

- 12 months (cartridges in paper and PE foil),
- 18 months (cartridges in plastic tubes).

## Approvals and classification:

	POLADYN 31ECO
CE certificate:	0589.EXP.0601/99
Classification certificate:	Nr 017/IPO-BW/2009
Proper transport name:	Blasting explosive
Type:	A
UN number:	0081
Class:	1
Classification code:	1.1 D