



# PRODUCT INFORMATION

## BROCHURE

1.1D

# Austinite 3 eco



**Austinite 3 eco** consists of porous ammonium nitrate, mineral oil and aluminium, the presence of aluminium enhances heave. Austinite 3 eco is not water resistant and can only be used in dry conditions. As Austinite 3 eco is not detonator sensitive we recommend using our cartridge emulsion explosives (e.g. Emulex 1 or APB) as a booster.

## PRODUCT OVERVIEW

### ADVANTAGES

- High gas volume.
- Very low sensitivity against mechanical and thermal stress.
- Borehole volume is perfectly utilized, therefore high degree of efficiency.
- Perfectly free flowing.
- May be used for pneumatic loading.

### APPLICATION RECOMMENDATIONS

- Lower temperature limit -20 °C.
- Upper temperature limit +30 °C.
- Minimum booster APB 450 or emulsion explosive.
- Minimum borehole diameter 50 mm.
- Not for use in hazardous environments where flammable gases or dust may exist.
- We recommend the use of an Emulex 1 or an APB booster charge. The amount of booster explosive in boreholes with a diameter of 50 mm or more should be 6 % minimum of the total explosive mass. In boreholes with a smaller diameter the amount of booster explosive should be 10 % minimum.
- Austin accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

## PROPERTIES

| Properties  | Value |
|---|-------|
| Nominal Density [g/cm <sup>3</sup> ]                      | 0.75  |
| Oxygen balance [%] <sup>(1)</sup>                         | 0.1   |
| Gas Volume [L/kg] <sup>(1)</sup>                          | 1,073 |
| Heat of explosion [kJ/kg] <sup>(1)</sup>                  | 4,107 |
| RWS [ANFO = 100] <sup>(1)</sup>                           | 112   |
| RBS [ANFO = 0.82 g/cm <sup>3</sup> ] <sup>(1)</sup>       | 94    |
| Velocity of detonation [m/s] <sup>(2)</sup><br>(confined) | 3,600 |

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ. For additional information please contact our sales team.

(2) The velocity of detonation will depend on application, diameter and confinement.

## STANDARD PACKAGING

| Available packing sizes | Weight NEQ [kg] |
|-------------------------|-----------------|
| Plastic bag             | 25.0            |
| Big bag                 | 500.0           |

Notes: The product is packed according to relevant regulations.

## STORAGE

- Lower temperature limit +5 °C.
- Upper temperature limit +30 °C.

## SHELF LIFE, STORAGE & DISPOSAL

- 6 months from the date of manufacture under proper storage conditions.
- Store in accordance with all applicable local and national legal requirements. If in doubt, contact your supplier or the manufacturer.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

## TRANSPORT – UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type B  
 Class & Division: 1.1D  
 ID Number: UN 0082

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**Our Mission is to improve the world we live in through the safe and responsible use of explosives.**