



# PRODUCT INFORMATION BROCHURE

1.5D

## Austinite



**Austinite** is a series of ammonium nitrate/fuel oil blasting agent products for a variety of blasting applications.

### PRODUCT OVERVIEW

#### ADVANTAGES

##### Austinite 15

- Contains only high-quality technical-grade ammonium nitrate
- Optimized fuel ratio for oxygen balanced detonation.
- Excellent free flowing handling characteristics.
- Packaged in 50lb, multi-wall paper bags.

##### Austinite WR 300

- Simply dewater borehole and load the WR300 before water returns.
- Provides full borehole coupling.
- 10% higher VOD than conventional ANFO.
- Packaged in 50lb, multi-wall paper bags.

##### Austinite 7 HE

- Added Aluminum produces higher heat of reaction than conventional ANFO.
- 37% higher energy than conventional ANFO.
- Expanded patterns are possible resulting in decreased blasting costs.
- Packaged in 50lb, multi-wall paper bags.

#### TECHNICAL DESCRIPTION

**Austinite 15** is a bagged ammonium nitrate/fuel oil (ANFO) blasting agent mixture designed for a variety of blasting applications.

**Austinite WR 300** is a bagged ammonium nitrate/fuel oil (ANFO) blasting agent mixture designed for use in dewatered borehole applications with the addition of Guar Gum to aid in water resistance.

**Austinite 7 HE** is a bagged ammonium nitrate/fuel oil (ANFO) blasting agent mixture designed for use in borehole applications requiring higher energy levels than conventional ANFO with the addition of aluminum for increased energy.

#### STANDARD TECHNICAL DESCRIPTION

Ammonium nitrate/fuel oil mixture

## APPLICATION RECOMMENDATIONS

- Austine Series Products must be in direct contact with an appropriate size packaged emulsion product or cast booster.
- Additional primers may be required depending on geological and borehole conditions.
- Austinite 15 is designed for use in blasting applications where bulk agents aren't practical.
- Austinite WR 300 is designed for use in blasting applications where boreholes have been previously dewatered.
- Austinite 7 HE is designed for use in blasting applications where the energy requirement within the borehole is greater than conventional ANFO.

## PROPERTIES

Properties	Austinite 15	Austinite WR 300	Austinite 7 HE	
Density [g/cc]	0.82	0.90	0.85	
Relative Bulk Strength ‡	100	101	117	
Relative Weight Strength <sup>(1)</sup>	100	111	121	
Oxygen Balance [%] <sup>(1)</sup>	-1.3	-4.2	-5.9	
Gas Volume	1,062	1,058	967	
Water Resistance	Poor	Good	Poor	
Heat of Explosion	2,157	2,185	2,523	
Fume Class	1	1	1	
Velocity of detonation <sup>(2)</sup>	[ft/s]	15,045	16,007	15,045
	[m/s]	4,586	4,879	4,588

Notes:

(1) Theoretical values based on Austin modeling, which assumes ideal detonation. Values calculated with other codes may differ.

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

‡ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

## STANDARD PACKAGING

Austinite Series products are packaged in 50 lb. multi-wall paper and 25 kg plastic valve bags.

## SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is three months from date of manufacture under good storage conditions.
- Store in accordance with all applicable local, state, provincial and federal laws.
- 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: 1.5D  
 ID Number: UN 0331

## US DOT REFERENCE NUMBER

EX-9303284

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**AUSTIN POWDER**

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