



PRODUCT INFORMATION

BROCHURE

1.5D

HEET 10 SERIES



Products in the **HEET Series** are augured blends of ANFO and emulsion for dewatered blast holes in surface operations.

ADVANTAGES

- Energy and water resistance can be adjusted to meet application demands
- Good fragmentation and excellent shock & heave energy provide easy digging muckpiles
- Increased loading convenience using bulk loading systems
- Pattern expansion when converting from ANFO can reduce costs
- HEET blends with Hydrox (oxidizer ANE) or Hydromite (solid sensitized ANE) provide different blasting properties to meet the needs of the application

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Austin Powder's HEET Series of bulk products have the highest energy compared to all other bulk products. The blend percentage is variable depending on the application and blast hole diameter.

APPLICATION RECOMMENDATIONS

- Minimum booster: 1/2 lb. cast booster (e.g. Brown Cap DC, Eagle 225, Eagle E*STAR 50)
- Minimum borehole diameter 4" - 5" (100mm - 125mm)
- Austin Powder accepts no responsibility for any loss or liability arising from use of this product in ground containing pyritic or other reactive material
- Consult your Austin Powder Technical Representative for advice on all application recommendations

PROPERTIES

Properties		Value
Density [g/cc]		.95 to 1.35
Oxygen Balance [%] ⁽¹⁾		-1.9 to -4.3
Water Resistance		Good to Excellent
Relative Weight Strength ⁽¹⁾		105 to 115
Relative Bulk Strength ⁽¹⁾		122 to 190
Velocity of detonation (confined) ⁽²⁾	[ft/s]	16,000 to 23,000
	[m/s]	3,657 to 4,572

Relative properties derived from an ANFO density = 0.82 g/cc @ 100 bar
 Relative energy values based on ANFO = 100

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.

PRIMING

These products are booster-sensitive explosives and must be in direct contact with an appropriate size cast booster. Additional primers may be required depending upon geological conditions and face height.

SHELF LIFE, STORAGE & DISPOSAL

- Store in accordance with all applicable local, state, provincial, and federal laws.
- These products are designed to be used as they are manufactured from the bulk truck.

US DOT REFERENCE NUMBER

EX-9303283 (Austinite 15)

EX-1993030287 (Hydrox 503)

TRANSPORT – UN CLASSIFICATION

Austinite 15

Shipping Name: Ammonium Nitrate - Fuel Oil Mixture

Class & Division: 1.5D

ID Number: NA 0331

Hydrox 503

Shipping Name: Oxidizing liquid, n.o.s. (contains Ammonium Nitrate / Fuel Oil Aqueous Emulsion)

Class & Division: 5.1

ID Number: UN 3375

Disclaimer of Warranties and Limitations of Liabilities: Products described in this document are sold by Austin Powder without warranty; express, implied or statutory or as to MERCHANTABILITY, except as expressly stated in Austin Powder’s straight bill of lading. Under no circumstances shall seller be liable for loss of anticipated profits, consequential damages or incidental damages. For more information and service locations please contact Austin Powder’s headquarters:



AUSTIN POWDER

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

Austin Powder, 25800 Science Park Drive, Cleveland, OH 44112 USA

austinpowder.com | info@austinpowder.com | Phone 1-800-321-0752 | Fax 1-216-464-4418