



PRODUCT INFORMATION BROCHURE

1.5D

HEET SERIES



HEET Series is a booster-sensitive blasting agent mixture of emulsion and ANFO packaged in plastic film or woven poly-plastic cartridges.

ADVANTAGES

- Develops excellent gas volume for heave displacement.
- Economical charge for wet hole environments
- Superior resistance to dynamic precompression from adjacent blast holes

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

HEET Series is a booster-sensitive blasting agent mixture of emulsion and ANFO

APPLICATION RECOMMENDATIONS

HEET 130 is an economical column load that can be used in blasting applications where the use of bulk blasting agents may not be possible.

PRIMING

When priming HEET Series, the blasting agent must be in direct contact with a minimum of one-pound cast booster. Depending on geologic conditions, additional primers may be required.

PROPERTIES

Properties		HEET 130	HEET 140
Density [g/cc]		1.22	1.28
Oxygen Balance [%] ⁽¹⁾		-3.1	-3.6
Gas Volume [l/kg]		1,067	1,067
Relative Weight Strength [ANFO=100] ⁽¹⁾		116	116
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}		182	173
Detonation Pressure		113	127
Heat of Explosion		2,507	2,510
Fume Class		1	1
Velocity of detonation (confined) ⁽²⁾	[ft/s]	20,841	21,779
	[m/s]	6,352	6,638

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

Cartridge Type	Cartridge Size		Cartridge Weight		Case Count
	[in]	[mm]	[lb]	[kg]	#
WPP – Woven Polypropylene	4 x 20	100 x 9.1	20	9.07	100
	4 ½ x 25	114 x 11.4	25	11.34	80
	5 x 30	127 x 13.6	30	13.60	70
	5 ½ x 40	140 x 18.2	40	18.14	50

Notes:

All dimensions and weights are nominal. Other sizes are available upon request

STANDARD TECHNICAL DESCRIPTION

Booster-sensitive emulsion / ANFO blends

SHELF LIFE, STORAGE & DISPOSAL

- Store in accordance with all applicable local, state, provincial, and federal laws.
- The disposal of explosives needs to comply with local and national laws. Contact Austin Powder with disposal questions.
- Three months from the date of manufacture under good storage conditions.

TRANSPORT – UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E
 Class & Division: 1.5D
 ID Number: UN0332

US DOT REFERENCE NUMBER

EX-1993050178

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AUSTIN POWDER

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