PRODUCT INFORMATION BROCHURE

1.5D

HYDROMITE 860 SERIES

Hydromite 860 Series is a booster-sensitive blasting agent mixture of emulsion and ANFO.
Hydromite 863 features the addition of aluminum.

ADVANTAGES

- Develops excellent gas volume for heave displacement of rock
- Economical cartridge blasting agent for wet hole environments
- Good borehole coupling characteristics when cartridges are cut
- Provides excellent water resistance
- Superior resistance to dynamic pre-compression from adjacent boreholes
- Added aluminum in Hydromite 863 provides increased energy for difficult blasting environments.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Hydromite 880 Series is a booster-sensitive blasting agent mixture of emulsion and ANFO. Hydromite 880 has a putty-like texture and is packaged in plastic film cartridges. Hydromite 883 features the addition of aluminum.

APPLICATION RECOMMENDATIONS

Hydromite 860 and 863 are designed to be used as a column load blasting agent, and is ideal for use in applications where it may not be practical or economical to bulk load.

Hydromite 863 can be used where additional energy may be required.

PRIMING

Hydromite 860 Series is a booster-sensitive blasting agent and must be in direct contact with a minimum of a 1/3 lb cast booster for proper initiation. Depending on borehole and geologic conditions, additional primers may be required.

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PROPERTIES

Properties		Hydromite 860	Hydromite 863
Density [g/cc]		1.22	1.24
Oxygen Balance [%] (1)		-6.4	-9.1
Gas Volume [l/kg]		1091	1039
Relative Weight Strength [ANFO=100] (1)		96	106
Relative Bulk Strength [ANFO=0.85 g/cm^3] (1) ‡		143	161
Heat of Explosion		2,075	2,291
Detonation Pressure		105	109
Fume Class		1	1
Velocity of detonation (confined) (2)	[ft/s]	20,430	20,405
	[m/s]	6,227	6,220

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]	#
Plastic Film	2 ½ x 8	63.5 x 215.9	8	3.63	215
	3 x 12	76.2 x 260.35	12	5.44	150
	3 ½ x 16	88.9 x 298.45	16	7.26	110
Woven Polypropylene (WPP)	3 x 10	76.2 x 1092	10	4.54	200
	3 ½ x 15	88.9 x 1219	15	6.80	135
	4 x 20	101.6 x 711.2	20	9.07	100
	4 ½ x 25	114.3 x 1219	25	11.34	80
	5 x 30	127 x 1219	30	13.61	70

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

STANDARD TECHNICAL DESCRIPTION

Booster-sensitive emulsion/ANFO blend

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.
- One year 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 Hydromite 860
EX-1993050178 Hydromite 863

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