



PRODUCT INFORMATION BROCHURE

1.5D

HYDROMITE 600 SERIES



Hydromite 600 Series is a booster-sensitive emulsion explosive with a putty-like texture.

ADVANTAGES

- Good borehole coupling characteristics when cartridges are cut
- Exhibits excellent water resistance
- Superior resistance to dynamic pre-compression from adjacent boreholes

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Hydromite 610 is a thickened emulsion explosive product packaged in tough plastic film cartridges.

Hydromite 611 is an emulsion explosive with a putty-like texture packaged in Woven Poly Plastic (WPP) cartridges.

APPLICATION RECOMMENDATIONS

Hydromite 600 Series products are an ideal column load option for blasting applications where the use of bulk blasting agents may not be practical or economical.

PRIMING

Hydromite 600 Series products must be in direct contact with a minimum of a 1/3 lb cast booster. Depending on borehole and geologic conditions, additional primers may be required.

PROPERTIES

Properties	Hydromite 610	Hydromite 611	
Density [g/cc]	1.21	1.20	
Oxygen Balance [%] ⁽¹⁾	-3.0	-9.3	
Gas Volume [l/kg]	1,092	1,102	
Relative Weight Strength [ANFO=100] ⁽¹⁾	91	89	
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}	134	130	
Heat of Explosion	1,962	1,904	
Detonation Pressure	97	98	
Fume Class	1	1	
Velocity of detonation (confined) ⁽²⁾	[ft/s]	19,871	19,931
	[m/s]	6,057	6,075

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 Explor 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 x 16	50 x 400	2.38	1.08	21
	2 ½ x 16	63 x 400	3.33	1.51	15
Woven Polypropylene (WPP)	4 x 20	102 - 1219	20	9.07	100
	4.5 x 30	114 x 1473	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 610
 EX-1993050178 Hydromite 611

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: 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