



PRODUCT INFORMATION

BROCHURE

1.5D

HYDROMITE 820 SERIES



Hydromite 820 Series is a booster-sensitive blasting agent mixture of emulsion and ANFO. **Hydromite 823** is a booster-sensitive blasting agent mixture of emulsion and ANFO featuring the addition of aluminum.

ADVANTAGES

- Develops excellent gas volume for heavy displacement of rock
- Economical cartridge blasting agent for wet hole environments
- Provides excellent water resistance
- Superior resistance to dynamic pre-compression from adjacent boreholes
- Added aluminum in 823 provides increased energy for difficult blasting environments

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Hydromite 820 Series is a blasting agent consisting of a mixture of emulsion and ANFO.

Hydromite 820 can be packaged in plastic film or woven poly-plastic cartridges

Hydromite 823 features the addition of aluminum for added energy and can be packaged in plastic film or woven poly-plastic cartridges

APPLICATION RECOMMENDATIONS

Hydromite 820 Series is an ideal column load option for blasting applications where the use of bulk blasting agents may not be economical.

Hydromite 823 can be used in the same applications as Hydromite 820, but where additional energy may be required.

PRIMING

Hydromite 820 Series is a booster-sensitive explosive and 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 820	Hydromite 823	
Density [g/cc]	1.26	1.27	
Oxygen Balance [%] ⁽¹⁾	-5.2	-7.8	
Gas Volume [l/kg]	1,079	1,026	
Relative Weight Strength [ANFO=100] ⁽¹⁾	106	115	
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}	163	179	
Heat of Explosion	2,292	2,488	
Detonation Pressure	118	119	
Fume Class	1	1	
Velocity of detonation (confined) ⁽²⁾	[ft/s]	14,000	13,700
	[m/s]	4,270	4,180

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]	#
Woven Polypropylene (WPP)	4 x 20	100 x 9.1	20	9.07	100
	4 ½ x 25	114 x 11.4	25	11.33	80
	5 x 30	127 x 13.6	30	13.61	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 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

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