ThrowMAX®1200

Product description

Downer Blasting Services' (DBS) *ThrowMAX®1200* Heavy ANFO products are blends of *HEAT®*1200 Inhibiting Emulsion, Ammonium Nitrate and Fuel Oil for use in both reactive and non-reactive ground types.

ThrowMAX®1200 Heavy ANFO products are augured into dry or dewatered blast holes.

The benefits of the *ThrowMAX®1200* range include:

- Excellent inhibiting characteristics suitable for varying levels of ground reactivity
- High blasthole loading rates
- High energy products that can easily be adapted to meet the energy requirements for any rock type
- Available in a range of in-hole densities.

Application

*Throw*MAX®1200 heavy ANFO products are high-energy bulk explosives ideal for dry or dewatered blast holes.

ThrowMAX®1200 Heavy ANFO products are not suitable for hot ground conditions.

- *ThrowMAX®*1210, 1220 and 1230 products should be used in dry blast holes only
- *ThrowMAX®*1240 can be used in both dry and dewatered blast holes without water recharge
- *ThrowMAX®*1240 should not be used in areas where dynamic water is present
- When used in reactive ground conditions sleep times will be determined through testing
- *ThrowMAX®*1210 and 1220 are generally not recommended for use in reactive ground due to low inhibiting emulsion content
- Consult your technical representative for site-specific applications

Specifications (stated at 100MPa)

Properties	ANFO	*Throw*MAX®			
Product identification		**TM 1210**	**TM 1220**	**TM 1230**	**TM 1240**
Effective energy[1] (MJ/kg)	2.3	2.4	2.5	2.5	2.7
Relative weight strength[1] (%)	100	104	107	110	116
Relative bulk strength[1] (%)	100	124	144	162	188
Velocity of detonation (VoD) range[2] (km/s)	3.0-4.5	4.0-4.6	4.0-4.6	4.0-4.7	4.0-5.2
Nominal density range[3] (g/cm³)	0.7-0.85	0.85-0.95	0.95-1.08	1.08-1.18	1.18-1.30
Minimum hole diameter (mm)	60	100	115	140	152
Maximum down hole life in dry conditions[4]	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks

1. Downer Blasting Services' energy values, relative weight strength and relative bulk strength are calculated by an ideal detonation modeling computer program at the Imperial College London, United Kingdom.
2. Range of VoD measured in –situ in medium hard rock and hole diameters between 102 and 270 mm.
3. A number of factors affect final product density including in-hole conditions, ammonium nitrate density, emulsion density, etc.
4. In reactive ground applications, the maximum sleep times will be determined by laboratory testing based on the AEISG Code of Practice for "Elevated Temperature and Reactive Ground".

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Classification

UN No.	0082
Shipping name	EXPLOSIVE, BLASTING, TYPE B
Class	1.1D
Safety Data Sheet	ThrowMAX

Recommendations for use

Priming Requirements: The preferred primer is a 400g cast booster. It is recommended that an additional cast booster be used every 12 metres of column charge to reduce risks associated with explosive column disruption.

Packaging: *ThrowMAX®1200* is available in bulk and is delivered through bulk truck delivery systems.

Handling: Information regarding this product is available from the relevant SDS.

Transportation: All explosives are classified as Dangerous Goods and must be transported in accordance with relevant State and Commonwealth regulations.

Storage and Security: All explosives are classified as Dangerous Goods and must be stored and secured in accordance with relevant State and Commonwealth regulations.

Manufacturer

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