

ThrowMAX[®]200

Product description

Downer Blasting Services' (DBS) *ThrowMAX[®]200* Heavy ANFO range of products is blends of *HEAT[®]200* Inhibiting Emulsion, Ammonium Nitrate and Fuel Oil for use in both reactive and non-reactive ground types.

ThrowMAX[®]200 Heavy ANFO products are augured into dry or dewatered blast holes.

The benefits of the *ThrowMAX[®]200* range include:

- Excellent inhibiting characteristics suitable for mildly to highly reactive ground conditions
- 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

ThrowMAX[®]200 heavy ANFO products are high-energy bulk explosives ideal for dry or dewatered blast holes.

ThrowMAX[®]200 Heavy ANFO products are not suitable for hot ground conditions.

- *ThrowMAX[®]240* can be used in both dry and dewatered blast holes without water recharge
- *ThrowMAX[®]240* should not be used in areas where dynamic water is present
- When used in reactive ground conditions sleep times will be determined through testing
- Consult your technical representative for site-specific applications

Specifications (stated at 100MPa)

Properties	ANFO	ThrowMAX [®]	
		TM 230	TM 240
Product identification			
Effective energy¹ (MJ/kg)	2.3	2.5	2.6
Relative weight strength¹ (%)	100	109	111
Relative bulk strength¹ (%)	100	160	180
Velocity of detonation (VoD) range² (km/s)	3.0-4.5	4.0-4.7	4.0-5.2
Nominal density range³ (g/cm³)	0.7-0.85	1.08-1.18	1.18-1.30
Minimum hole diameter (mm)	60	150	175
Maximum down hole life in dry conditions⁴	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[®]200 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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