

TECHNICAL DATA SHEET

ThrowMAX[®]200

Product Description

Downer Blasting Services' (DBS) ThrowMAX[®]200 Heavy ANFO range of products are 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 reactive ground conditions;
- High blast hole loading rates;
- High energy products that can easily be adapted to meet the energy requirements for any non-reactive rock type, and;
- 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.

Technical Properties

Properties	ANFO	ThrowMAX [®]	
		TM 230	TM 240
Energy ¹ (MJ/kg)	2.3	2.6	2.6
Relative weight strength ¹ (%)	100	109	111
Relative bulk strength ¹ (%)	100	160	180
Velocity of Detonation (VoD) Range ² (km/s)	3.0 – 4.5	4.0 – 4.7	4.0 – 5.2
Nominal density range ³ (g/cm ³)	0.7 – 0.85	1.08 – 1.20	1.18 – 1.30
Minimum hole diameter (mm)	60	150	175
Hole Condition	Dry	Dry	Dry, Dewatered
Sleep Time in dry conditions ⁴	4 weeks		

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Recommendations for use

Priming Requirements: The preferred primer is a 400g cast booster. It is recommended that an additional cast booster be used every 15 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 ThrowMAX[®] 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.

Classification

UN No.	0082
Shipping Name	Explosive Blasting, Type B
Class	1.1D
Safety Data Sheet	ThrowMAX

Manufacturer

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Note

All Specification are stated at 100MPa

1. Downer Blasting Services' energy values, relative weight strength and relative bulk strength are calculated by an ideal detonation modelling 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 the Nominal density including HEAT emulsion, ammonium nitrate 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".

DISCLAIMER: All information contained in this data sheet is accurate, complete and up-to-date at the time of issue. Whilst Downer EDI Mining - Blasting Services Pty Ltd ("DBS") has made every reasonable effort to ensure the accuracy of the information; every user is responsible for its own understanding and the safe and correct use of the products. It is the sole responsibility of the user to make enquiries, obtain advice and determine the necessary safe conditions for the product's intended use and the user assumes liability for any loss, damage, expense or cost resulting from such use. To the extent permitted by law, DBS expressly disclaims any and all liability arising from the use, or reliance upon the information contained in this data sheet.

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