

TECHNICAL DATA SHEET

HEAT[®]1600 Emulsion Matrix

Product Description

Downer Blasting Services' (DBS) HEAT[®] 1600 emulsion matrix is an intermediate product used to manufacture water resistant explosives for blasting.

HEAT[®]1600 characteristics include:

- Easy to pump;
- Excellent storage stability; and
- Used to manufacture a broad range of bulk explosives.

Application

- HEAT[®]1600 bulk emulsion is compatible with various sources of Ammonium Nitrate to manufacture bulk explosives.
- Oxygen balanced to allow the manufacture of a broad range of bulk explosives.
- High water resistance for the manufacture of bulk explosives suitable for wet conditions.
- Compatible with chemical sensitisers.
- Not recommended for reactive and / or hot ground applications.

Product Specification

Parameter	Specification
Ammonium Nitrate (%)	70% Minimum
Water content (%)	20% Maximum
Oil and other hydrocarbons (%)	<10%
Emulsifier (%)	<5%
Bulk density (g/cm ³)	1.34 ± 0.02 g/cm ³
Brookfield Viscosity (cP)	25000 – 35000 cP
Water resistance ¹	5 Excellent
Storage Life ²	3 months

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Recommendations for use

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

Transportation: HEAT[®]1600 emulsion must be transported in accordance with relevant State and Commonwealth regulations.

Storage and Security: HEAT[®]1600 emulsion must be stored in a suitable licenced container for class 5.1 oxidizing agents as required by local, state and federal regulations. HEAT[®]1600 emulsion must also be handled in accordance with Security Sensitive Ammonium Nitrate (SSAN) Regulations.

Manufacturer

Downer EDI Mining – Blasting Services Pty Ltd

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Note

1. Water resistance is a qualitative measure with 0 being none, 3 being good and 5 excellent.
2. Storage period under recommended storage conditions.

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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Classification

UN No.	3375
Shipping Name	Ammonium Nitrate Emulsion
Class	5.1 Oxidizing Agent
Safety Data Sheet	HEAT emulsion