



### Product Description:

The Blasting Services **AquaMAX®** Heavy ANFO range of products is a blend of Blasting Services **HEAT® emulsion**, Ammonium Nitrate and Fuel Oil for use in wet blast holes as well as high shock, low heave blasting applications. These products are pumped into the blast hole to displace the water. The benefits of the **AquaMAX®** range of products are:

- Excellent safety characteristics.
- **AquaMAX®** products provide high energy yields capable of fracturing a variety of rock types.
- **AquaMAX®** products have excellent water resistance in wet holes providing extended sleep times in blast holes with no dynamic water.
- **AquaMAX®** products can be adapted to meet the energy requirements of a variety of non-reactive rock types. Average in-hole density can be varied to meet the specific requirements of the blast and rock types.
- **AquaMAX®** products are ideal for applications requiring high shock energy for excellent fragmentation while minimising ground movement and subsequent dilution.

### Application:

**AquaMAX®** products are high energy products ideal for wet blast holes in non-reactive rock types. In dynamic water conditions, extra precautions may be required. Gassing time of at least 20 minutes is required prior to stemming.

### Specification: (Stated at 100MPa)

Properties:	ANFO	<b>AquaMAX®</b>				
Product Identification		AM 800	AM 890	AM 880	AM 870	AM 860
Energy <sup>1</sup> (MJ/kg)	3.77	3.05	3.13	3.20	3.27	3.34
Relative Weight Strength <sup>1</sup>	100	81	83	85	87	89
Relative Bulk Strength <sup>1</sup>	100	116	119	122	125	127
Density Range <sup>2</sup>	0.7 – 0.85	0.95 – 1.20	0.95 – 1.20	0.95 – 1.20	0.95 – 1.20	0.95 – 1.20
Minimum Hole Diameter (mm)	60	89	89	102	102	102
Water Resistance <sup>3</sup>	0	5	5	5	5	4
Down Hole life in dry conditions <sup>4</sup>	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks

1. Blasting Services energy values, Relative Weight Strength and Relative Bulk Strength are calculated using an in-house thermodynamic code. This traditional way of calculating energy is directly related to density and does not take into account the distribution of energy.
2. A number of factors affect final product density including in-hole conditions, ammonium nitrate density, emulsion density, ammonium nitrate fines, bulking agent density and amount of gassing etc. The AquaMAX® range of products is able to be gassed to a density ranging from 0.95 to 1.20g/cc.
3. Water resistance is a qualitative measure with 0 being none, 3 being good and 5 being excellent.
4. Sleep times are dependent on in-hole water conditions. In general the longer a particular product sleeps the poorer the blasting outcomes. Holes with dynamic water should be loaded and shot immediately, while in extreme dynamic water conditions extra precautions may be required. The sleep time in non-reactive rock types should never exceed 4 weeks.

### Classification:

**UN No.:** 0241

**Shipping Name:** EXPLOSIVE, BLASTING, TYPE E

**Class:** 1.1D

**Material Safety Data Sheet (MSDS):** DM-BL-MSDS 4 AquaMAX®

### Recommendations for Use:

#### Priming Requirements:

The minimum primer is a 340g cast Booster although a 400g cast Booster is preferred. 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:

**AquaMAX®** is available in bulk, delivered through bulk truck delivery systems.

#### Handling:

Information regarding this product is available from the relevant Blasting Services MSDS.

#### 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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### Warning and Disclaimer:

To the best of Blasting Services's knowledge the information contained in this data sheet is accurate at the time of issue. The conditions under which this information is used is outside the control of Blasting Services and each user should review and is responsible for being aware of the product applications in the specific context of the intended use.

Blasting Services is not responsible for damages of any nature resulting from the use of or reliance upon the information in this data sheet. To the extent to which Blasting Services is able, all conditions, representations and warranties, whether express or implied, not required to be binding by statute are excluded.