

TECHNICAL DATA SHEET

AquaMAX® 9000 Series

Product description

Downer Blasting Services' (DBS) AquaMAX® 9000 product is suitable for underground mining operations where there is a need for quick and adjustable charging and good water resistance.

The AquaMAX® 9000 is charged by pumping and is sensitized in situ.

The benefits of AquaMAX® 9000 include:

- Excellent water resistance, which enables extended sleep time in wet holes
- Ability to chemically gas to various in-hole densities to meet specific energy requirements as well as suit various ground conditions

Application

AquaMAX® 9000 is a high-energy bulk emulsion explosive ideal for underground mining operations.

- AquaMAX® 9000 can be used in wet as well as dry boreholes
- AquaMAX® 9000 can be applied in horizontal, as well as vertical up-holes and down-holes.
- AquaMAX® 9000 requires a booster for optimum initiation
- Consult your technical representative for site-specific applications

Specifications (stated at 100MPa)

Properties	AquaMAX® 9000		
Density ¹ (g/cm ³)	0.80	1.0	1.20
Effective energy ² (MJ/kg)	2.9		
Relative weight strength ² (%)	78	78	78
Relative bulk strength ² (%)	76	95	114
Gas Volume ² (Lt/kg)	990		
Velocity of detonation (VoD) range (km/s)	3.0-5.0		
Minimum hole diameter ³ (mm)	30	45	60
Maximum down hole life in dry conditions ⁴	4 weeks		

1. The AquaMAX® 9000 range is able to be gassed to densities ranging from 0.80 to 1.20 g/cm³.
2. AquaMAX® 9000 energy values have been calculated with the Cheetah 2.0 (NTP) ideal detonation code with ANFO as reference explosive at 0.82g/cm³.
3. Minimum hole diameter depend on applied inhole density.
4. Sleep times are dependent on in-hole water conditions and geology.

TECHNICAL DATA SHEET

AquaMAX® 9000 Series

Classification

	AM9000
UN No.	0241
Shipping name	EXPLOSIVE, BLASTING, TYPE E
Class	1.1D
Material Safety Data Sheet	AquaMAX®

Recommendations for use

Priming Requirements: AquaMAX®9000 underground explosive product requires at least a 25g Booster for ideal detonation.

Packaging: The AquaMAX® 9000 series is available in bulk and is charged into vertical – up-hole, down-hole or horizontal boreholes with custom-build charging equipment.

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

Downer EDI Mining – Blasting Services Pty Ltd

ABN: 97 009 687 487

A: 22 Cordelia Street
South Brisbane

P: + 61 7 3026 6666

F: + 61 7 3026 6070

1800 680 402 (Emergency contact- Australia)

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.