AquaMAX® 1600

BULK EXPLOSIVES

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PRODUCT DESCRIPTION

Enaex Australia AquaMAX® 1600 bulk explosive range consist of a blend of HEAT® 1600 Emulsion, Ammonium Nitrate and Fuel Oil for use in wet blast holes.

These products are delivered into the blast holes to displace water.

The benefits of AquaMAX® 1600 range include:

- Excellent safety characteristics.
- Excellent water resistance, which enables extended sleep time in wet holes.
- Ability to chemically gas to various in-hole densities to meet specific blast requirements as well as ground conditions.
- High-shock energy, which leads to excellent fragmentation in hard ground conditions.
- Ability to tailor product type on-bench to suit the ground conditions and blast requirements.

APPLICATION

AquaMAX® 1600 products are high-energy bulk explosives ideal for wet blast holes.

- AquaMAX® 1600 products can be used in wet blast holes containing static water - ideally these holes should be fired within 14 days of loading.
- Blast holes with dynamic water should be loaded and fired as soon as possible, however extra precautions may be required.
- Blast holes should only be stemmed after completion of the gassing reaction.
- AquaMAX® 1600 products should not be loaded into areas with reactive and/or hot ground conditions.
- Please consult your technical representative for site-specific applications.

CLASSIFICATION

UN No.	0241
Shipping Name	Explosive Blasting, Type E
Class	1.1D
Safety Data Sheet	AquaMAX®

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: AquaMAX® 1600 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.

DISCLAIMER

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TECHNICAL PROPERTIES					
Properties	**ANFO**	**AquaMAX® 1660**	**AquaMAX® 1670**	**AquaMAX® 1680**	**AquaMAX® 1690**
Energy[1] (MJ/kg)	2.3	2.6	2.5	2.5	2.3
Relative weight strength[1] (%)	100	113	110	107	101
Relative bulk strength[1] (%)	100	177	171	167	158
Velocity of Detonation (VoD) Range[2] (km/s)	3.0 - 4.5	4.2 - 5.7	4.2 - 5.8	4.2 - 5.5	4.2 - 5.0
Nominal density range[3] (g/cm^3)	0.70 - 0.85	0.90 - 1.25	0.90 - 1.25	0.90 - 1.25	0.90 - 1.25
Minimum hole diameter (mm)	60	100	100	100	100
Hole Condition	Dry	Dry, Dewatered, Wet	Dry, Dewatered, Wet	Dry, Dewatered, Wet	Dry, Dewatered, Wet
Delivery Method	Auger	Pump	Pump	Pump	Pump
Sleep Time in dry conditions	4 weeks				

All Specification are stated at 100MPa

1. Enaex Australia 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, ammonium nitrate density, HEAT emulsion density and the amount of gassing.
4. Recommend to use at least 2 x 400g Boosters in blast holes deeper than 60m.

EMERGENCY CONTACT

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Do you want to get in touch with one of our experts?

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