AquaMAX®200

Product description

Downer Blasting Services' (DBS) *AquaMAX®200* Inhibiting explosive products is a blend of *HEAT®*200 Emulsion, Ammonium Nitrate and Fuel Oil suitable for reactive and non-reactive ground types.

AquaMAX®200 is pumped into the blast holes to displace water.

The benefits of the *AquaMAX®200* products include:

- Excellent inhibiting characteristics suitable for use in mildly to highly reactive ground conditions
- 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

Application

*Aqua*MAX®200 products are high-energy bulk explosives formulated for use in reactive ground applications.

AquaMAX®200 products are not suitable for hot ground conditions.

- *AquaMAX®*200 products can be used in wet blastholes containing static water; ideally these holes should be fired within 14 days of loading
- Blastholes with dynamic water should be loaded and fired as soon as possible, however extra precautions may be required
- When used in reactive ground conditions sleep times will be determined through testing
- Blastholes should only be stemmed after completion of the gassing reaction
- Consult your technical representative for site-specific applications
- *AquaMAX®*250 is pumped or *augured into dry or dewatered blast holes.*

Specifications (stated at 100MPa)

Properties	ANFO	*Aqua*MAX®			
Product identification		**AM 250**	**AM 260**	**AM 270**	**AM 280**
Effective energy[1] (MJ/kg)	2.3	2.4	2.3	2.3	2.2
Relative weight strength[1] (%)	100	102	100	97	95
Relative bulk strength[1] (%)	100	160	156	152	148
Velocity of detonation (VoD) range[2] (km/s)	3.0-4.5	4.2-5.7	4.2-5.7	4.2-5.8	4.2-5.5
Nominal density range[3] (g/cm³)	0.7-0.85	1.00 – 1.25	0.95 – 1.25	0.95 – 1.25	0.95 – 1.25
Minimum hole diameter (mm)	60	150	150	150	150
Maximum down hole life in dry conditions[4]	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks

1. Downer Blasting Services' energy values, relative weight strength and relative bulk strength are calculated by an ideal detonation modeling 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 final product density including in-hole conditions, ammonium nitrate density, emulsion density and the amount of gassing 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".

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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®200* 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.

Manufacturer

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