

Velocity®

VLG SERIES



Velocity® VLG range of products is a blend of Ammonium Nitrate 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.

Benefits

The benefits of the Velocity® VLG range of products are:

- Excellent safety characteristics.
- Velocity® VLG products have excellent water resistance in wet holes providing extended sleep times in blast holes with no dynamic water.
- Velocity® VLG products can be added 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.
- Velocity® VLG products are ideal for applications requiring high shock energy for excellent fragmentation while minimising ground movement and subsequent dilution.

Application

Velocity® VLG 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	VELOCITY® VLG				
Product Identification		VLG 1600	VLG 1610	VLG 1620	VLG 1630	VLG 1640
Energy ¹ (MJ/kg)	3.77	3.05	3.13	3.20	3.27	3.34
Relative Weight Strength ¹	100	81	83	85	87	89
Relative Bulk Strength ¹	100	116	119	122	125	127
Density Range ²	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 ³	0	5	5	5	5	4
Down Hole life in dry conditions ⁴	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks

1. 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 Velocity® VLG 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 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

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

Velocity[®] VLG is available in bulk, delivered through bulk truck delivery systems.

Handling

Information regarding this product is available from the relevant SynegeX product MSDS.

Transportation

All explosives are classified as Dangerous Goods and must be transported in accordance with relevant State and Commonwealth regulations.

Storage & Security

All explosives are classified as Dangerous Goods and must be stored and secured in accordance with the relevant State and Commonwealth regulations.

AN  **AUSDRIILL** COMPANY

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