

WALA

Gassed Blend Series



Description

WALA are series of bulk explosive blends specifically designed for Coal mining and Iron Ore application based on **NanoBlok®** technology. WALA is chemically sensitised and thickened to achieve maximum water resistance. WALA may be used as a pumpable product or poured (Augered) into the blast hole via augers.

Advantages

WALA bulk explosive blends is chemically gassed to achieve densities in the range of 0.40-1.36 g/cc allowing flexibility in the optimisation of the explosive distribution for different ground condition. The RBS could be adjusted by adjusting the AN content as well as the density of the final mixture achieving variations in heave performance to meet blast requirement.

Due to its flexibility in achieving lighter densities than traditional emulsion blends this product has demonstrated excellent results in medium to soft ground type and fume prone conditions. Wala is the ideal explosive for coal mining with medium to soft overburden and wet blast holes. Light density WALA can replace ANFO and reduce blast powder factor by upto 20%.

Technical Information

Properties

	WALA Pumped	WALA Augered
Density (g/cc)	0.65-1.25	0.70-1.25
Min hole diameter (mm)	89	102
Energy (Cal/g)	742	804
Detonation temp (°C)	2444	2557
Gas Vol (lit/kg)	946	950
Sleep time (days)	14	12
Relative weight strength	81	88
Relative bulk strength (0.7 g/cc)	73	83
Relative bulk strength (0.95 g/cc)	99	112
Relative bulk strength (1.10 g/cc)	125	131
Relative bulk strength (1.20 g/cc)	136	143

Velocity of Detonation Results

Product	Hole diameter	VOD
WALA Pumped	102	3500-4800
WALA Augered	150	3000-4600

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Recommendations

Priming Requirements - WALA blends are formulated to be booster sensitive and require a minimum 150g primer. Smaller booster types may reduce the performance of the explosive. Additional boosters should be used when the column height exceeds 10 metres or where there is risk of column disruption. Detonating cord are not recommended.

Shelf Life -WALA GEL has a minimum shelf life of six (6) months, when transported and stored under normal conditions.

Sleep Time -For applications where unusual or specific conditions exist please consult your local SUN Mining Services representative.

Reactive Ground Conditions -WALA blends are inherently resistant to mild reactive ground conditions due to its chemical composition. For applications in extreme reactive ground conditions please consult your local SUN Mining Services representative.

Ground Temperature - WALA blends are suitable for use in ground with a temperature of -5°C to a maximum of 55°C.

Dangerous Goods Classification

Product Name:	WALA Gassed Series
Correct Shipping Name:	Explosive, Blasting, Type E
UN Number:	0241
DG Class:	1.1D

Safe handling, transportation & storage

First Aid -Detailed first aid information regarding this product is contained on the relevant SUN Mining Services Material Safety Data Sheet.

Safety -All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage -All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

While SUN Mining Services makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific context of the intended use. If technical advice is required in the specific application of the products then you should contact SUN Mining Services for assistance.

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