

## Amex™ LE

### Description

*Amex™ LE* is a packaged blend of Ammonium Nitrate, inert material and refined oil designed for controlled blasting under dry conditions.

### Application

*Amex™ LE* blasting agent can be used in dry boreholes, or the dry sealed top portion of holes containing water, in both surface and underground operations.

### Benefits

- *Amex™ LE* packaged ammonium nitrate can be used to generate smooth walls with minimum overbreak.
- *Amex™ LE* reduces ground control costs.
- *Amex™ LE* is factory blended; the ingredients do not segregate.
- *Amex™ LE* is free flowing it can be poured into downholes or used in a pneumatic loader.

### Packaging

*Amex™ LE* is available in 25 kg (55 lb) plastic bags. This product is only available in Canada, awaiting DOT EX number for US shipments.

### Technical Properties

Amex™ LE			
Properties	Poured in 100 mm (4 in.) hole	Pneumatically loaded in 75 mm (3 in.) hole	
Density (g/cc)	0.88	1.02	
Hole Type	Dry		
Delivery System	Packaged		
Recommended Pentex™ Primer for minimum hole diameter	See below		
Typical m/s (1,000's)	1.5	1.3	
VOD <sup>(1)</sup> ft/s (1,000's)	5.0	4.25	
Water Resistance	None	None	
Fume Class	1	1	
Relative Effective Energy (REE) <sup>(2)</sup>	RWS	43	44
	RBS	45	53

### Recommendations for Use

#### Priming and Initiation

Poured or gravity loaded, *Amex™ LE* is not detonator sensitive. *Amex™ LE* is booster sensitive and must be in direct contact with an appropriately sized *Pentex™* booster. The use of detonating cord may adversely affect the performance of the *Amex™ LE* series and could result in misfires in boreholes less than 75 mm (3 in.) in diameter. Consult an Orica Technical Representative before attempting to use with detonating cord.

When *Amex™ LE* is loaded pneumatically, Orica recommends the use of a cast booster or a cartridge of explosive for priming. For guidelines when priming directly with a high-strength detonator alone, contact an Orica Technical Representative.

#### Loading

*Amex™ LE* has no water resistance. It must be used in dry holes or the dry sealed top portion of holes containing water.

*Amex™ LE* can be pneumatically loaded with approved pneumatic loading equipment.

Do not pour-load *Amex™ LE* into boreholes less than 65 mm (2½ in.) in diameter. Consult an Orica Technical Representative for guidelines.

### Storage and Handling

#### Explosive Classification

Authorized Name: *Amex™ LE*  
 Proper Shipping Name: Explosive, blasting, type B  
 Classification: 1.5D  
 UN No: 0331  
 Packing Group: II  
 EX Number: Awaiting DOT Approval

#### Storage

For maximum shelf life, *Amex™ LE* should be stored at ambient temperatures. Extreme changes in temperature that cause *Amex™ LE* explosive to cycle through -18°C (0°F) or 32°C (90°F) will reduce its shelf life, and make it lumpy and hard to handle. *Amex™ LE* should be stored in dry conditions in a well-ventilated, approved, high explosives magazine.

## Amex™ LE

### Disposal

Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

### Safety

*Amex™ LE* is relatively insensitive to accidental initiation by shock, friction or mechanical impact under normal conditions of use. Detonation may occur from heavy impact or excessive heating particularly under conditions of confinement.

Explosives based on Ammonium Nitrate such as the *Amex™ LE* may react with pyritic materials in the ground and create potentially hazardous situations. Orica accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

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limitation, damages for lost or anticipated profits. Explosives based on ammonium nitrate such as *Amex™ LE* may react with pyritic materials in the ground and create potentially hazardous situations. Orica accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

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### Emergency Contact Telephone Numbers

For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

**Canada:** Orica Canada emergency response **1-877-561-3636**

**USA:** Chemtrec **1-800- 424-9300**

For lost, stolen or misplaced explosives:

**USA:** BATFE **1-800-800-3855**. Form ATF F5400.0 must be completed and local authorities (state / municipal police, etc) must be advised.

### Notes

1. The in-hole VODs of this product has been measured in excess of the values shown. Actual VOD will depend on hole diameter and confinement.
2. The Relative Effective Energy (REE) of an explosive is the energy calculated to be available to do effective blasting work. All energy values are calculated using the *IDeX™* computer code owned by Orica for the exclusive use of its companies. Energy values are based on standard ANFO with a density of 0.84 g/cc and a cutoff pressure of 100 MPa. Other computer codes may give different values.