

# Amex™ WR

## Description

Amex™ WR is an explosive blend of ammonium nitrate, fuel oil, and water resistant ingredients, and is economical for use in dewatered holes.

## Application

Amex™ WR explosive can be gravity loaded in dewatered holes in surface applications.

## Key Benefits

- Amex™ WR booster-sensitive explosive can be used in static water conditions as an alternative to packaged explosives.
- Amex™ WR loads easily and completely fills the borehole to give maximum explosive load per foot.
- Amex™ WR has low post blast fumes that result in reduced turnaround time.
- Amex™ WR is a low cost explosive that is resistant to dynamic pre-compression.

## Packaging

Amex™ WR explosive is available in 22.7 kg (50 lb) or 25 kg (55 lb) multi-wall paper bags, plastic bags in Canada. It is shipped on pallets or baler bags. In some areas it is also available in reusable, flexible, intermediate bulk containers (FIBCs) of various sizes.

## Technical Properties

Amex™ WR			
Properties	Poured in 100 mm (4 in. hole)	Pneumatically loaded in 38 mm (1.5 in.)	
Density (g/cc)	0.84	0.99	
Hole Type	Dry or Dewatered		
Delivery System	Packaged		
Recommended Pentex™ Primer for minimum hole diameter	See below		
Typical	m/s (1,000's)	4.0	3.3
VOD <sup>(1)</sup>	ft/s (1,000's)	13	10.8
Water Resistance	Good	Good	
Fume Class	1	1	
Relative Effective Energy (REE) <sup>(2)</sup>	RWS	97	97
	RBS	97	114

## Recommendations for Use

### Priming and Initiation

Amex™ WR 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™ WR 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.

### Loading

Amex™ WR explosive can be gravity loaded into boreholes immediately after dewatering. Gravity-loaded Amex™ WR explosive is recommended for use in 75 mm (3 in.) diameter and larger boreholes.

### Ground Temperature

Explosives based on Ammonium Nitrate such as the Amex™ WR may react with pyritic materials in the ground and create potentially hazardous situations. Orica accepts no

## Amex™ WR

responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

These products are available for use in ground temperatures 32°F (0°C) to a maximum of 150°F (65°C). If your application requires you to operate outside this temperature range please contact your local Orica Technical Representative.

### Storage and Handling

#### Explosive Classification

Authorized Name: *Amex™ WR*  
 Proper Shipping Name: Explosive, blasting, type B  
 Classification: 1.5D  
 UN No: 0331  
 Packing Group: II  
 EX Number: 200080068 (Blackie, AB)  
 EX Number: 19980010232 (Deer Park, WA)

#### Storage

For maximum shelf life, *Amex™ WR* should be stored at ambient temperatures. Extreme changes in temperature that cause *Amex™ WR* 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™ WR* should be stored in dry conditions in a well-ventilated, approved explosives magazine.

#### 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™ WR* 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.

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Orica Canada Inc.  
 301 Hotel De Ville  
 Brownsburg, QC J8G 3B5  
 Tel: +1 303 268 5000  
 Fax: +1 303 268 5250

Orica USA Inc.  
 33101 East Quincy Ave  
 Watkins, CO 80137  
 Tel: +1 303 268 5000  
 Fax: +1 303 268 5250

### 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.