

KEMEX PUMPED EMULSIONS

IRISH INDUSTRIAL EXPLOSIVES Ltd (IIE) offers a complete, on-site service that delivers explosives directly into the shothole.

Kemex is a site manufactured explosive. The non-explosive materials are transported in a specifically-designed pumptruck. The materials, once blended, are pumped direct into the shothole by trained and experienced operators.

The system—with a capacity of up to ten tonnes—meets the quantity delivered while loading the shot.

SPECIAL BENEFITS

IIE's Kemex service offers the customer many benefits.

- It allows for a widening of the drill pattern thus reducing overall costs.
- Kemex is waterproof and therefore ideally suited to Irish conditions.
- 100 per cent rock coupling allows maximum use of explosive energy.
- Reduced manual handling means less labour required.
- Kemex speeds up the blast process, especially on larger shots.
- On-site waste disposal is no longer necessary.
- Increased safety as Kemex only becomes an explosive (20 mins) in the shothole.

By reducing manpower and drilling requirements this convenient system allows significant savings in the overall cost of blasting operations.

See over for safety data ►



IRISH INDUSTRIAL EXPLOSIVES LTD

87/89
WATERLOO ROAD
DUBLIN 4

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FAX: 01 668 5248

FACTORY
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The information and recommendations are given without warranty, expressed or implied, statutory or otherwise, and no liability shall be accepted for the consequence of any reliance placed thereon. Recipients should make their own tests to determine the suitability of products for their particular purposes.

NOTE: If in any doubt concerning the correct use of the above products contact Irish Industrial Explosives Ltd.

IMPORTANT: If considering destruction of surplus products in the field please refer to *Recommended methods for the destruction of Explosives and Accessories.*



Safety data for:

KEMEX

PUMPED EMULSIONS

1. CHEMICAL COMPOSITION

A gassed emulsion/ANFO mixture

2. HAZARDS IDENTIFICATION

The Kemex range of explosives are classed as UN Division 1.1 i.e. substances having a mass explosion risk.

Hazards	Risks
1. Explosion	Serious
2. Chemical exposure	Medium

Precautions

1. Personnel working with explosives should be trained in their use.
2. Gloves should be worn when handling exposed explosives.

3. FIRST AID MEASURES

Contact with the skin

Wash thoroughly with warm water.

Contact with the eyes

Irrigate thoroughly with water for at least 15 minutes. If ingested seek medical advice.

4. FIRE FIGHTING MEASURES:

Fires involving explosives must NOT be fought. Use water-based extinguishers to prevent fire reaching explosive materials. The product may burn to detonation. An area of at least 300 metres around the fire should be evacuated, and the site of the fire must not be approached until it is absolutely certain that the fire is out.

5. ACCIDENTAL RELEASE MEASURES

Wear gloves and overalls when treating spillages. Spillages of these explosives should be carefully removed and preferably put into a borehole for disposal by detonation. Do not allow spillages to enter a watercourse.

6. HANDLING AND STORAGE

Explosives must be handled with care and not subjected to naked flame. Smoking while handling explosives is strictly forbidden. Bulk explosives loaded at point of use should not usually be stored.

7. EXPOSURE CONTROL AND PERSONAL PROTECTION

When handling exposed explosives personnel are advised to wear suitable gloves and overalls. (See *First Aid measures* above.)

When handled correctly these explosives do not present any serious hazard to personnel.

8. PHYSICAL AND CHEMICAL PROPERTIES

Viscous fluid containing varying amounts of suspended solid. Possesses a slight diesel smell. The material is insoluble in water.

Density = 1.02 g/cc - 1.18 g/cc

Decomposition temperature > 150°C

9. STABILITY AND REACTIVITY

As this is a bulk product which does not become an explosive until it is pumped into a borehole, shelf life storage is not applicable. The 'sleep' time within a borehole will depend on the hole conditions.

10. TOXICOLOGICAL INFORMATION

Mild irritant to skin and eyes.

11. ECOLOGICAL INFORMATION

Viscous liquid. When burned these explosives give off nitrous fumes. Burning may lead to detonation.

12. DISPOSAL CONSIDERATIONS

See *Accidental release measures* above.

13. TRANSPORT INFORMATION

Not normally transported.

UN No. 0241

UN Class 1.1.D

14. REGULATORY INFORMATION

Customers wishing to purchase explosives must comply with S.I. 115 of 1995, European Community (Placing on the Market and Supervision of Explosives for Civilian Use) Regulation 1995.

A licence for pumped emulsion mixtures as specified in the Ammonium Nitrate Mixtures Exemption Order, S.I. No. 365 of 1997, must be obtained for the particular site.

For further information on these or other **Irish Industrial Explosives Ltd.** products please contact us at one of the addresses below.



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I.S. EN ISO 9002