

# EMULEX® 1000LD

## PRODUCT INFORMATION BROCHURE

EMULEX® 1000LD is a premium high performance, water resistance and re-pump-able emulsion. It can be used as a 100% emulsion product or a blend with up to 40% ammonium nitrate porous prills by weight for most of the open pit mining operations.

The product is chemically sensitised to a density in range of 1.05 – 1.25 g/cc allowing flexibility to meet blast requirements. After sensitisation, the product will be booster sensitive and is used as the main charge in quarry and mining application. It works remarkably well for wet, and wet/dry blast-holes in mining, quarrying, and construction with its excellent water resistance.

### Hazardous Shipping Description

Ammonium Nitrate Emulsion, intermediate for blasting explosives  
Class 5.1, UN3375, PG II  
Note: Non-sensitised Emulsion



### Priming

Sensitized EMULEX® 1000LD bulk emulsion or bulk blend can be effectively primed with EMULEX series packaged products or pentolite booster. The booster diameter and total number of boosters will vary with the rock formation and size of boreholes.

### Shelf Life

EMULEX® 1000LD emulsion has a shelf life of six (6) months from the date of manufacture, when transported and stored under ideal conditions.

### Temperature Requirement

Recommended use/ store in temperature ranging from 0 to 50°C.

### Reactive Ground Conditions

EMULEX® 1000LD is not designed for use in reactive ground conditions.



## AUSTIN POWDER

**Austin Powder Malaysia Sdn. Bhd.**

(Registration No.: 197601000224) (26191-A)  
(Formerly known as Tenaga Kimia Sdn Bhd)

No. 8, Jalan SS 22/21, Damansara Jaya, 47400 Petaling Jaya, Selangor Darul Ehsan. Tel : 603 - 7729 7464 | Fax : 603 - 7729 8383

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### Technical Properties ( EMULEX® 1000LD 70:30 Blend )

Bulk Blend Density (g/cc)	1.05 – 1.20
Minimum diameter (mm)	76
Water Resistance	Good
Velocity of Detonation (m/s, approx.)*	4,000 - 5,500
Sleep Test	Min 7 Days
Energy (MJ/kg)**	3.19
Relative volume strength (ANFO = 100)	121

\* VOD is dependent on product density, diameter and other factors.

\*\* Energy value is calculated using a computer program based on thermodynamic properties.

### Sensitising System

Acid Solution	Diluted solution of citric acid
Gassing Agent Solution	Diluted solution of sodium nitrite

Gassed density 1.05 – 1.25 g/cc within 30min

### Application Recommendations

- Don't stem the blastholes right after loading. A 30min gassing period is required.
- Do use good stemming material or aggregate of size less than 0.1 of the blasthole diameter. Drill dust or sand may be used if stem plug is used in the blast hole.
- Do secure the signal tube during loading.

Contact your local Austin Powder representative for further information.

### Disclaimer of Warranties and Limitations of Liabilities

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