



## TENAGA KIMIA SENDIRIAN BERHAD (26191A)

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## TECHNICAL DATA SHEET

### PRODUCT: EMULEX<sup>®</sup> E1030 (BULK BLEND)

EMULEX<sup>®</sup> E1030 is a mixture of 70% EMULEX<sup>®</sup> Bulk Emulsion with 30% Ammonium Nitrate prills. The product is sensitised (gassed) with dosage of diluted sodium nitrite solution to lower its density from 1.36 – 1.40 g/cc to 1.05 – 1.25 g/cc.

After sensitisation, the product will be booster sensitive and is used as the main charge in general blasting application. It works remarkably well for wet, and wet/dry blast-holes in mining, quarrying, and construction with its excellent water resistance.

#### Product Properties

| Description  | E1030         |
|--|---------------|
| Bulk Blend Density (g/cc)                          | 1.20          |
| Minimum diameter (mm)                              | 76            |
| Water Resistance                                   | Excellent     |
| Velocity of Detonation (m/s, approx)               | 4,000 - 5,500 |
| Sleep Test   | 7 Days        |
| Energy (MJ/kg) <sup>1</sup>                        | 3.2           |
| Relative volume strength (ANFO = 100) <sup>1</sup> | 124           |

EMULEX<sup>®</sup> E1030 can be effectively primed with EMULEX<sup>®</sup> E100 or E150 in 55 mm diameter chub or pentolite booster. The booster diameter and total number of boosters will vary with the rock formation and size of boreholes.

Note: 1. Calculation based on thermodynamic properties.

#### Sensitising System

|                        |                                    |
|------------------------|------------------------------------|
| Acid solution          | Diluted solution of citric acid    |
| Gassing agent solution | Diluted solution of sodium nitrite |

**Note: Gassed density 1.05 – 1.25 g/cc within 30min**

#### Disclaimer

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