



## TENAGA KIMIA SENDIRIAN BERHAD (26191 A)

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## TECHNICAL DATA SHEET

### PRODUCT: BULK EMULSION - UNDERGROUND (E1000UG) - UNGASSED

Bulk Underground is Bulk Emulsion with higher content of oxidizer percentage compares with other TK's bulk emulsions. The product is sensitised with pre-blend gassing solution to lower its density from 1.36 – 1.44 g/cc to 0.95 – 1.25 g/cc.

After sensitisation, the product is booster sensitive and used as the horizontal or anti gravity charge in various blasting application. It works remarkably well for wet, and wet/dry blast-holes in tunnelling and under ground project with its excellent water resistance.

#### Product Properties

Description	E1000UG (un-gassed)
Bulk Blend Density (g/cc)	1.36 – 1.44
Minimum diameter (mm)	40
Water Resistance	Excellent

Bulk Underground can be effectively primed with EMULEX® E100 or E150 in not smaller than 25 mm diameter chub. 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 acetic acid
Gassing emulsion	Diluted solution of sodium nitrite

Note: Gassed density 0.90 – 1.0 g/cc within 5min