



RUGGED DIESEL EXHAUST FLUID (DEF)

RUGGED Diesel exhaust fluid (DEF) is an aqueous urea solution made with 32.5% high-purity urea (AUS 32) and 67.5% deionized water. DEF is used as a consumable in Selective Catalytic Reduction (SCR) in order to lower NOx concentration in the diesel exhaust emissions from diesel engines.

DEF meets the quality requirements defined by ISO22241-1

| PARAMETER | TYPICAL |
|---------------------------|---------------------|
| Urea Concentration | 32.5+ -.07% |
| Density at 20 °C | 1087.0-1093.0 kg/m3 |
| Refractive Index at 20 °C | 1.3814 - 1.3813 |
| Free Ammonia (Alkalinity) | 0.2% max |
| Biuret | 0.3% max |
| Formaldehyde | NONE |
| Insoluble Matter | 20 ppm max |
| Phosphates | 0.5 ppm max |
| Calcium | 0.5 ppm max |
| Iron | 0.5 ppm max |
| Copper | 0.2 ppm max |
| Zinc | 0.2 ppm max |
| Chromium | 0.2 ppm max |
| Nickel | 0.2 ppm max |
| Aluminum | 0.5 ppm max |
| Magnesium | 0.5 ppm max |
| Sodium | 0.5 ppm max |
| Potassium | 0.5 ppm max |

A SUPERIOR PRODUCT BY COLORADO PETROLEUM 10-14-14 KT