UNPCHEMICALS

FRICTION MODIFIER

*FMET*® ASHLESS SERIES

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***FMET® T2*** is an ashless friction modifier with an ethoxylated tallow amine structure (containing only C, H, O, N). It can greatly reduce the friction coefficient of oil products and is widely used in mineral-based and synthetic-based lubricant formulations. It is usually used in engine oils, automatic or manual transmission oil formulations. In the textile industry, it can also be used as an emulsifier, antistatic agent and dispersant. The product has a yellow liquid appearance and will solidify into a paste at low temperatures, both states can be used directly.

## CHEMICAL COMPOSITION

Ethoxylated tallow amine CAS No.: 61791-44-4

## TYPICAL PROPERTIES

| Test Item | Typical Data | Method |
|---|---|---|
| Appearance at 20℃ | Paste solid | Visual inspection |
| Density at 20℃, g/cm$^3$ | 0.90 | GB/T 1884 |
| Viscosity at 40℃, mm$^2$/s | 62.1 | GB/T 265 |
| Base number, mgKOH/g | 155.0 | SH/T 0251 |
| Flash point closed cup, ℃ | 150.2 | GB/T 261 |

*Note: The above analytical data are not specifications.*

## PERFORMANCE CHARACTERISTICS

- Excellent anti-friction properties
- Free of metal, sulfate ash
- Good synergistic effect with various friction improvers including MoDTC

## APPLICATION

- Engine oil
- Automatic transmission fluid formulations
- Manual transmission fluid formulations

## USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended treat level: 0.3-1.0%

## RELATIVE PRODUCTS

- ETHOMEEN T12

## PACKAGING AND STORAG

| | |
|---|---|
| **Packaging** | 50kg plastic drum or 180kg steel drum (Net weight) |
| **Storage conditions** | Store in a cool, dry, well-ventilated warehouse |

## HANDLING INFORMATION

Avoid contact with skin, eyes and clothing. Operate in accordance with good industrial health and safety practices. Please refer to material safety data sheet (MSDS) for additional handling information on ***FMET® T2***.

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