

FMET® T3 is a nitrogen-containing, ester-based ashless friction modifier that significantly reduces the friction coefficient of oil products. It is compatible with all synthetic and mineral engine oils and does not contain SAPS (sulfonate ash, phosphorus, sulfur). It can improve the fuel economy of the formula and simultaneously reduce the usage amount of ZDDP. The ester structure of **FMET® T3** ensures its compatibility with other additives.

CHEMICAL COMPOSITION

Mixed esters generated by the reaction of special long-chain fatty acids with polyol amines
CAS No.: 61790-67-8

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Yellow clarified liquid	Visual inspection
Density at 40℃, g/cm ³	0.91	GB/T1884-2000
Viscosity at 40℃, mm ² /s	47	GB/T 265-1988
Flash point closed cup, °C	125	GB/T 261-2021
Base number, mgKOH/g	80	SH/T 0251-1993
Nitrogen content, %	2.1	NB/SH/T 0656-2017

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Excellent friction reduction performance, helping to enhance fuel economy
- Does not contain sulfur, phosphorus, and sulfated ash
- Non-corrosive and has good compatibility with other additives
- Good synergistic effect with organic molybdenum friction modifiers

APPLICATION

- Mainly used in engine oil formulation
- Available for automatic and manual transmission fluid formulations

USAGE METHOD

- The overall performance depends on the base oil and other additive components used, and it should be tested in the overall formulation
- It can be directly added to the customer's product formulation, but the compatibility needs to be tested before addition
- Recommended treat level: 0.5-1.5%
- The product has a high cloud point. It may become turbid or even solidify at low temperatures.
- It is recommended to be used at a temperature above 30°C

RELATIVE PRODUCTS

- ARMOLUBE T

PACKAGING AND STORAGE

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® T3**.

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