

**FMET<sup>®</sup> 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<sup>®</sup> 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°C, g/cm <sup>3</sup>	0.91	GB/T1884-2000
Viscosity at 40°C, mm <sup>2</sup> /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**

<b>Packaging</b>	50kg plastic drum or 180kg steel drum (Net weight)
<b>Storage conditions</b>	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**.

Luoyang Pacific United Petrochemical Co., Ltd. (UNPChemicals) hopes that the information provided will be helpful to you. The information provided in this document has been prepared by technicians and is true and accurate as of the date of this document. However, please note that the conditions of your use and application of our products, technical assistance and information (whether orally, in writing or through product evaluation), including any suggested formulations and recommendations, are outside our control. UNPChemicals makes no representations, warranties or warranties (whether express, implied, statutory or otherwise), or implied warranties as to the completeness, accuracy or timeliness of any information. It is therefore important that you test our products, technical assistance and information, including how they are packaged, to determine their performance, efficacy and safety. You are solely responsible for the performance, efficacy and safety of any products you produce. UNPChemicals assumes no liability and you bear all risks and liabilities for any use or handling of any material. Nothing in this document should be interpreted as suggesting the use of any product that conflicts with the patent covering any material or its use. No license is implied or granted under the claims of any patent. We will provide consistent quality products within our sales conditions.