

**FMET® 2890** is a sulfur- and phosphorus-free ashless friction modifier, which exhibits excellent anti-wear, anti-friction, and corrosion inhibition properties. It is widely used in internal combustion engine oils, various industrial lubricants, neat oil metalworking fluids, and lubricating greases.

## CHEMICAL COMPOSITION

Nitrogen-containing boric acid esters

## TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Yellow to brown transparent liquid	Visual inspection
Density at 20℃, g/cm <sup>3</sup>	0.96	GB/T1884-2000
Flash point open cup, °C	177	GB/T 3536-2008
Boron content, %	1.0	NB/SH/T 0824-2010
Nitrogen content, %	2.4	NB/SH/T 0656-2017

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

## PERFORMANCE CHARACTERISTICS

- No sulfur and phosphorus, metal free
- Excellent friction reduction, wear resistance, and corrosion inhibition performance
- Good synergistic effects in reducing friction and anti-wear, with additives containing sulfur, phosphorus, and metal elements, such as ZDDP

## APPLICATION

- Internal-combustion engine oil
- Various industrial lubricating oils
- Metal working fluids
- Lubricating grease

## **USAGE METHOD**

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended treat level: 0.1-1.0wt%

## **RELATIVE PRODUCTS**

- VANLUBE 289

## **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® 2890**.

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