UNPCHEMICALS

FRICTION MODIFIER

FMET® ASHLESS SERIES

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***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^3	0.96	GB/T1884
Flash point open cup, ℃	177.0	GB/T 3536
Boron content, %	1.0	NB/SH/T 0824
Nitrogen content, %	2.4	NB/SH/T 0656

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 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® 2890***.

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