



# XG301HV TDS

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## Friction Modifier

XG301HV is a potent, durable, versatile & cost-effective friction reducer that is ashless, sulfur, and phosphorous free. It is designed for industrial lubes and greases.

\*Note: Before use, heat up additive to 35°C-40°C and agitate/mix into carrier fluid/grease.

### XG Industries

53 Hancock St.  
Stratford, CT 06615  
(475) 282-4643

For more information, please  
email:

[sales@xgindustries.com](mailto:sales@xgindustries.com)

Figure 1 – Tested at 1 wt.% in Group 4 base oil

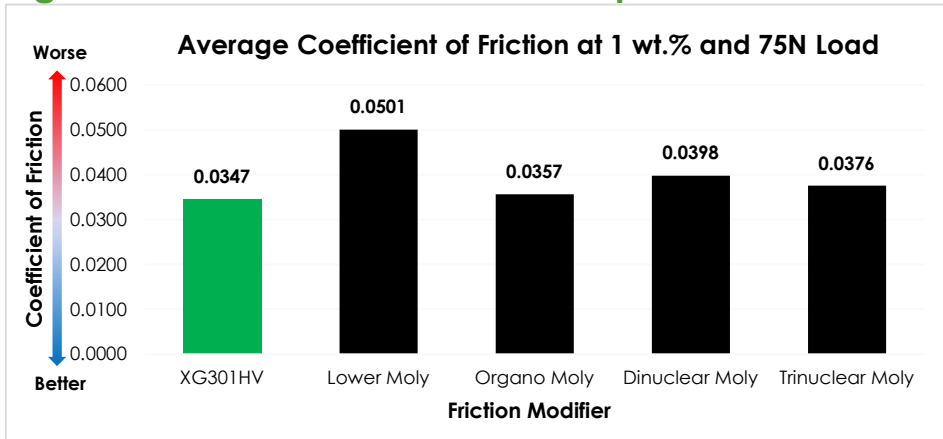


Figure 2 – Tested at 3 wt.% in Group 4 base oil

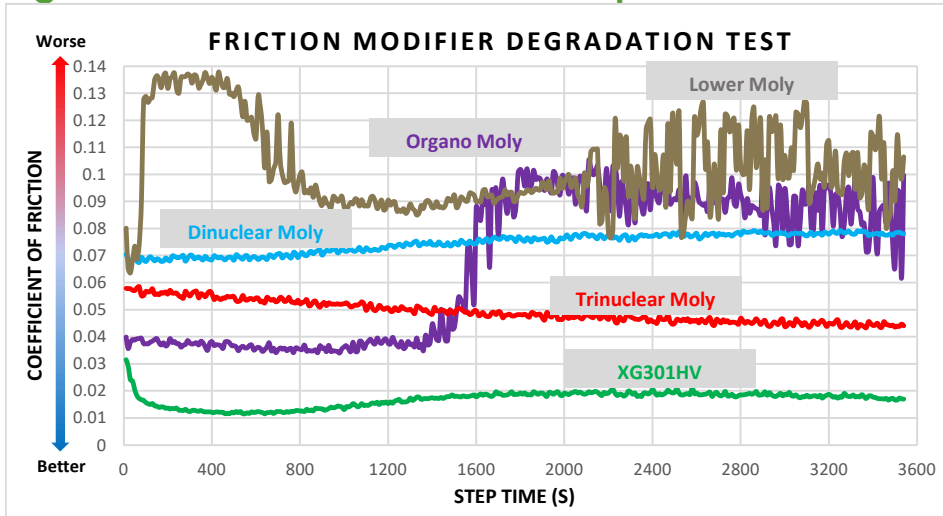
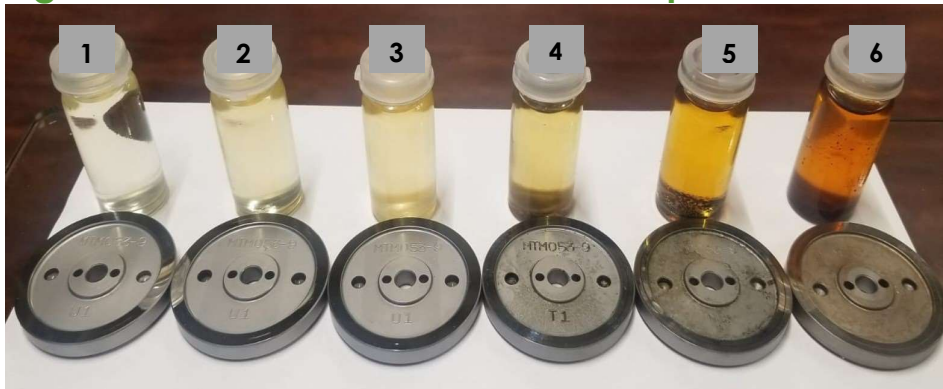


Figure 3 – Additives at 3 wt.% in Group 4 base oil



(1: XG301, 2: XG301HV, 3: XG301EP, 4: Organo Moly, 5: Dinuclear Moly, 6: Trinuclear Moly)

## Product Description

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- Higher viscosity version of our XG301 friction modifier.
- Designed for use in engine oils, industrial lubricants, and greases.
- Provides superior performance over all moly-based products when compared in tests performed on an industry-standard Mini Traction Machine (Figure 1).
- Provides longer lasting effect as seen in the long-term degradation test (Figure 2).
- Odorless, non-corrosive, and non-toxic (Figure 3).
- Can be used with any grease and conventional base oil, including PAO.

## XG301HV TDS



### Chemical Composition

Organic Esters and Polyalkylene Glycol Ether

### Properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Dark Brown
<b>Density @ 20°C</b>	1.02 g/mL
<b>Viscosity @ 100°C</b>	35 cP
<b>ASTM Color, 1% in Oil</b>	3
<b>ASTM Cu Corrosion, 1% in Grease</b>	1b
<b>ASTM 4-Ball Wear, 3% in Grease</b>	0.49
<b>ASTM 4-Ball Weld, 3% in Grease</b>	620
<b>Flash Point</b>	>270°C

\*These numbers are typical properties for any given volume and do not constitute specification limits.

### Solubility

Soluble in most carrier fluids, lubricants, and greases.

### Recommended Treat Rates

Heat additive to 35°C-40°C and agitate/mix into carrier fluid/grease for 2-5 minutes before use.  
0.1 to 3.0 wt.% dependent on application.

### Recommended ASTM Test Procedures

- ASTM D5183 – 4-Ball Wear CoF
- ASTM D2266 – 4-Ball Wear for Greases
- ASTM D2596 – 4-Ball Weld Test for Greases
- ASTM D4172 – 4-Ball Wear for Lubricants

### Applications

- Metalworking
- Passenger car engine oils (PCMO)
- Industrial oils
- Greases

\***Disclaimer:** All the recommendations above are suggestions and are only opinions for uses and applications. Please refer to all local and state regulations for product disposal. For any handling or safety related issues, please refer to the SDS for this product.