

Breakthrough Viscosity Modifiers For High VI Fluids

OEMs and end users demand high efficiency lubricants that save energy, perform better, and last longer. High viscosity index (VI) lubricants have answered by improving efficiency and fuel economy while ensuring proper equipment function and protection. High VI fluids are less viscous at low and normal operating temperatures but maintain needed viscosity at high temperatures. This improves efficiency at cold start and under normal operating conditions without sacrificing efficiency and protection at high temperatures.

And now, lubricant marketers have the ability to supply more profitable, differentiated products that offer even more value to their customers.

Asteric™ Viscosity Modifiers

Lubrizol Asteric viscosity modifiers for High (VI) industrial and power transmission fluids offer the latest VM technology that helps set lubricant marketers apart from the competition. Asteric VMs are radial or star polymethacrylate polymers. The star architecture allows them to outperform conventional PMA products in a number of important performance areas.

In comparison to conventional PMA products, Asteric VMs:

- **Work better** – they boost Viscosity Index (VI) much more per unit treat rate and per unit of viscosity increase
- **Offer more formulating flexibility** – formulators can use heavier base oil blends and still achieve the desired fluid properties
- **More easily achieve very high VI** – such as 200 VI or more
- **Provide better low-temperature fluidity** – in comparable formulations
- **Maintain viscosity better** in long-duration shear testing – important for long drain or fill-for-life applications
- Have shown good **all-around performance** in filterability, water separation, color stability, friction, wear, and yellow metal corrosion

For lubricant marketers, this means Asteric VMs:

- Are **easier to use** in multigrade or high VI formulations.
- Can **reduce inventory costs** because less Asteric VM is needed in your formulations.
- Help **reduce operating cost and complexity** because they reduce the need for very light base stocks. Asteric VMs also can be used in multiple applications.
- Help refresh or reposition multigrade hydraulic fluid product lines to address end user needs for more efficient, longer lasting and better performing fluids.

For more information contact us at VMInfo@lubrizol.com or visit www.AstericVM.com