



New High Performance OSP-Based Grease

Powered by UCON™ Oil-Soluble Polyalkylene Glycol Technology

**Grease is grease, right?
Unfortunately, it's not that simple.
Fortunately, Dow has the solution.**

What You Need to Know

- The wrong grease may be costing you extra for machine maintenance and replacement parts; the right grease will allow equipment to run longer without a maintenance problem while lowering your total operating costs
- UCON™ Oil-Soluble Polyalkylene Glycols (OSPs) are a field-tested and customer-validated breakthrough, revolutionizing synthetic grease technology for steel mills and other heavy industries
- Under severe operating conditions, OSPs create a film barrier that delivers long-lasting lubricity and friction control
- OSP is the leading alternative to petroleum oils and synthetic hydrocarbons, for better lubricant performance



If You Can't Do It Better, Why Do It?

OSP is the workhorse of a new, high-performance overbased calcium sulfonate grease purposed for extreme operating environments. Calcium sulfonate greases excel in high temperature performance and exhibit superior shear stability, resulting in less leakage, run-out and sling-off. They also exhibit excellent corrosion resistance, low wear and high extreme pressure (EP) performance.¹

The Art and Science of OSP-based Grease

Where formulation is the special recipe, OSP is the main ingredient, delivering a peak-performance grease with high EP and dropping point – among other added benefits. OSP has the unique advantage of controlling deposit formation by solubilizing degraded oxidation polar by-products. Deposit formation is a common challenge for hydrocarbon oils. These deposits reduce lubricity and clog feed lines, preventing adequate lubrication of machine parts and causing premature wear, equipment failure and production stoppages.

When Do You Need an OSP-based Calcium Sulfonate Complex Grease?

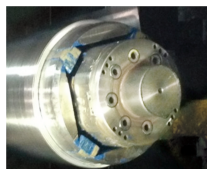
When the benefit outweighs the cost. If an application has specific requirements that only this type of grease can meet, then it is worth the price. A good illustration is the steel industry as shown in the following table. Steel mills are big grease consumers with many lubrication points, operating under the harshest conditions.

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Steel Mills: A Case for OSP Grease

Application – Cold Mill Mandrel

Features	<ul style="list-style-type: none">• Extended greasing interval from 2 to 4 weeks• Reduced sling-off
Value Benefits	<ul style="list-style-type: none">• 50% reduction in grease consumption and cost• Increased workplace safety, reduced mess



“I doubt if Dow realizes what you have with OSP. This is the first truly new base fluid for the lubricants industry since the introduction of PAOs.”

Application – Caster Spindles and Bearings

Features	<ul style="list-style-type: none">• 15°-20°F reduction in bearing temperature
Value Benefits	<ul style="list-style-type: none">• Reduced wear• Extended bearing life



Application – Hot Mill Wobbler Coupling

Features	<ul style="list-style-type: none">• Improved lubrication in heavy metal-to-metal contact
Value Benefits	<ul style="list-style-type: none">• Cut production stoppages• Extended equipment life



— Rick Butler
Technology Manager, Chemtool, Inc.
(a Lubrizol company)

Accolades for OSP

“PAOs seem to be limited in some very high temperature applications. We have found that OSP can provide the extra performance you need in the most rigorous applications.” – Eric Lancaster, Director Industrial Products, Phillips 66 Company

“We are always looking for new polymers to improve the performance of our product lines. With OSP, the performance of several of our products has been improved.” – Karen Lin, TOTAL Specialties USA Product Manager

“PAO based greases hit their limit. OSP is the wave of the future.” – Top 10 US Oil Company

“OSP – Just call it Out Standing Performance!” – Perry Byrd, Vice President, Mid-South Sales, Inc.

Now You Know

“Performance greases powered by Dow UCON™ OSP can double your lubricant life for less. Plus, OSP-based grease offers superior friction, wear and corrosion control, enabling users to get more out of their equipment.”¹ To speak with a grease expert, email us at OSP@dow.com.

References

¹ Dr. Govind Khemchandani, Senior Technical Specialist, The Dow Chemical Company, “OSP-New Group V Base Fluid for Manufacture of Sulfonate Greases,” NLGI 8 1st Annual Meeting, June 14-17, 2014, Palm Beach Gardens, Florida, USA.

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