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.
Powered by UCON™ Oil-Soluble Polyalkylene Glycol Technology

Steel Mills: A Case for OSP Grease

<table>
<thead>
<tr>
<th>Application – Cold Mill Mandrel</th>
<th>Features</th>
<th>Value Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Extended greasing interval from 2 to 4 weeks</td>
<td>• 50% reduction in grease consumption and cost</td>
</tr>
<tr>
<td></td>
<td>• Reduced sling-off</td>
<td>• Increased workplace safety, reduced mess</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Application – Caster Spindles and Bearings</th>
<th>Features</th>
<th>Value Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• 15°-20°F reduction in bearing temperature</td>
<td>• Reduced wear</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Extended bearing life</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Application – Hot Mill Wobbler Coupling</th>
<th>Features</th>
<th>Value Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Improved lubrication in heavy metal-to-metal contact</td>
<td>• Cut production stoppages</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Extended equipment life</td>
</tr>
</tbody>
</table>

“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.”

— 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.” To speak with a grease expert, email us at OSP@dow.com.

References


Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

North America:
Toll-free: 1-800-447-4369

Europe:
Toll-free: +800 3 694 6367
Call: +31 11567 2626

Pacific:
Toll-free: +800 7776 7776
Call: +60 3 7965 5392

Latin America:
Call: +55 11 5188 9000

www.dow.com/ucon/osp

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer’s use and for ensuring that Customer’s workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to “Dow” or the “Company” mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Form No. 816-00089-0914 MM