



# Lubrizol

## Carbospense™ K-700 Water Treatment Polymer News

Since 1994, the “*Carbospense™ K-700 Water Treatment Polymer News*” has served as a means to provide timely information to Lubrizol’s water treatment chemical (WTC) customers. You may view this newsletter and several previous issues at the web site noted below:

[www.carbospense.com](http://www.carbospense.com) see “Newsletters”

### SAP Implementation Continues.

Lubrizol has continued implementing SAP as our enterprise resource planning system as well as a set of standardized business processes. The Lubrizol Advanced Materials (LZAM) North America, Europe/South Africa, and Asia SAP go-live dates were June-2008, April-2009, Oct-2010, respectively. LZAM’s SAP implementation process is moving forward in Latin America with a 3<sup>rd</sup> quarter 2011 target date. The SAP capability is enabling Lubrizol to improve planning, scheduling, tracking production and distribution of our products, thereby streamlining our supply chain (e.g., material requisitions) and integrating activities with customer orders. Our number one priority is continuing to make it easy to do business with Lubrizol.

### New Technical Papers\* and Brochure Available.

- ❖ “[Silica Control Additives for Industrial Water Systems](#)” (NACE-10048) was presented at NACE International’s Corrosion/2010 in San Antonio, TX. The data in this paper show the water chemistry effect on silica polymerization inhibitors and indicate the following:
  - Metal ion type (mono-, di, and tri-valent) and concentration strongly influence inhibitor performance.
  - ≤1 ppm of inorganic flocculants [e.g., Al(III) & Fe(III)] exhibits an antagonistic effect on inhibitor performance.
  - ≤3 ppm diallyldimethyl ammonium chloride (a cationic flocculant) has an insignificant (<5%) antagonistic effect on the performance of Lubrizol’s Carbospense™ K-XP212 and K-XP229).
- ❖ “[Effects of Thermal Stress on Silica-Silicate Deposit Control Agent Performance](#)” (AWT-2010) was presented at the Association of Water Technologies’ ([www.AWT.org](http://www.AWT.org)) 2010 Annual Convention in Reno, NV. The paper contains polymer performance data before and after exposure to thermal stress for Lubrizol’s Carbospense™ K-XP212 and K-XP229 copolymers and several competitive polymers indicating the following:
  - Silica-silicate deposit control agents should have both scale inhibition and particulate dispersion properties.
  - Exposing polymers to thermal stress causes varying degrees of performance loss depending upon several factors.
  - CKXP229 is a unique multi-functional product that incorporates silica polymerization inhibition and particulate (SiO<sub>2</sub>, MgSiO<sub>3</sub>, iron oxide, and clay) dispersant properties and is resistant to performance loss due to thermal stress.

\* Electronic copies of these technical papers & articles above as well as many others may be viewed at <http://www.lubrizol.com/DispersantsWaterTreatment/TechPapers/Carbospense.html>.

### New Brochure and Text Book Available.

- ❖ A new brochure entitled “**Carbosperse K-XP229 Acrylate Copolymer**” addressing the attributes of this new product as a deposit control agent for use of a component of water treatment programs for systems where silica and/or silicate fouling is of primary concern is available upon request.
- ❖ CRC Press/Taylor & Francis Group ([www.crcpress.com](http://www.crcpress.com)) published a book entitled “**The Science and Technology of Industrial Water Treatment**,”\* edited by Lubrizol’s Dr. Zahid Amjad. The book covers a wide range of topics as individual chapters written by industry experts around the world including Dr. Amjad who along with several other Lubrizol employees contributed the chapters below:
  - Mineral Scales and Deposits.
  - Scale and Deposit Control Polymers for Industrial Water Treatment.
  - Scale Formation and Control in Thermal Desalination Systems.
  - Analytical Techniques for Identifying Mineral Scales and Deposits.
  - Deposit Control Polymers: Types, Characterization, and Applications.

\* The book may be obtained from several sources including <https://store.awt.org>, [www.crcpress.com/product/isbn/9781420071443](http://www.crcpress.com/product/isbn/9781420071443), and [www.ultrapurewater.com/zencart](http://www.ultrapurewater.com/zencart).

### Seasons Greetings and Best Wishes for the New Year!

Please contact your local Lubrizol sales representative or office with any questions or comments. You can obtain the name of the Carbosperse K-700 polymer sales representative, distributor, or agent for your area by contacting LZAM’s regional office (see below) for your location.

#### LZAM Locations & Sales Agents within the U.S.A.

<b>Lubrizol Advanced Materials, Inc.</b> Performance Coatings Group 9911 Breckville Rd., Cleveland, OH 44141 P/216-447-5000, <a href="http://www.carbosperse.com">www.carbosperse.com</a>	<b>Customer Service:</b> • USA: P/800-380-5397, <a href="mailto:coatings.csr@lubrizol.com">coatings.csr@lubrizol.com</a> • Int’l: P/216-447-5000, <a href="mailto:LZAM.export@lubrizol.com">LZAM.export@lubrizol.com</a> <b>Marketing &amp; Technical Service:</b> <a href="mailto:bob.zuhl@lubrizol.com">bob.zuhl@lubrizol.com</a> , P/216-447-7584, F/216-447-5238
<b>USA East Coast &amp; Midwest Sales Agent</b>	<b>USA West Coast Sales Agent</b>
<b>ZIBEX, Inc.</b> , P.O. Box 3009, Duluth, GA 30096 P/770-417-1426, F/770-417-1429, <a href="mailto:zibexinc@cs.com">zibexinc@cs.com</a> or <a href="mailto:fizibrida@cs.com">fizibrida@cs.com</a>	<b>Creative Performance Chemicals, Inc.</b> 18760 E. Amar Road, Ste. 170, Walnut, CA 91789 P/909-869-1186/ F/909-869-5840, <a href="mailto:cpchem@aol.com">cpchem@aol.com</a>

#### Locations & Distributors for Customers Outside the U.S.A.

<b>Lubrizol Advanced Materials (Canada)</b> International Customer Service 9911 Breckville Rd., Cleveland, OH 44141 P/1-216-447-5000, F/1-216-447-5720 <a href="mailto:LZAM.export@lubrizol.com">LZAM.export@lubrizol.com</a>	<b>PIM Mexico, S.A. de C.V.</b> Insurgentes Sur. No. 299-203 Col. Hipodromo Condesa, 06170 Mexico, DF <b>Mexico</b> P/011-52-55-5564-6911, F/011-52-55-5564-6803 Gilberto Rocha, <a href="mailto:gilberto.rocha@pimmexico.com">gilberto.rocha@pimmexico.com</a>
<b>Lubrizol Advanced Materials Europe B.V.B.A.</b> (Europe, Middle East, Africa) Camino de Can Caldes, 13/17 08173 Sant Cugat del Valles, Barcelona, <b>Spain</b> P/+34-93-590-2957, F/+34-93-590-2940 Corrine Ferlay, <a href="mailto:corrine.ferlay@lubrizol.com">corrine.ferlay@lubrizol.com</a>	<b>Lubrizol Southeast Asia (Pte.) Ltd.</b> (Asia Pacific Region) 44 Tanjong Penjuru Singapore 609032 P/65-6264-1644, F/65-6264-2105 Tan Meng Kwang, <a href="mailto:mengkwang.tan@lubrizol.com">mengkwang.tan@lubrizol.com</a>

**Please notify Lubrizol ([bob.zuhl@lubrizol.com](mailto:bob.zuhl@lubrizol.com)) of any changes in your contact information including company name, address, telephone No., FAX No., or E-mail address. Thank you!**