



noveon

Good-Rite® K-700

WATER TREATMENT POLYMER NEWS

Since 1994, the "Good-Rite® K-700 Water Treatment Polymer News" has served as a forum for providing information to our water treatment chemical (WTC) customers. You may view this newsletter and several previous issues using the web link noted below:

http://www.noveon.com/products/dispersants_watertreatment/newsletters.asp

Good-Rite® K-700 Polymers to become Carbospense™ K-700 Polymers

Noveon is in the process of re-naming the Good-Rite® K-700 polymers as appropriate for our businesses and markets. However, the **well recognized "K-700" polymer designations** as well as the product specifications will remain the same. For the water treatment industry, Noveon's **Carbospense K-700 polymers** will be joining Noveon's diverse group of high performance polymer families with similar tradenames including Carbopol®, Carboset®, Carbobond®, Carbocure®, and Carbotac® that are used in wide variety of markets and applications.

The **re-branding process is ongoing and completion is expected in Mid-April 2007**. During the transition process, we will be addressing many issues including product literature, product labeling, and web sites. In the interim, we appreciate your understanding, support, and business. To assist you with the transition, a cross-reference showing the Good-Rite K-700 and Carbospense K-700 polymer designations is available using the following web link:

http://www.noveon.com/products/dispersants_watertreatment/tradename.asp

New Technical Papers Available

Calcium Carbonate Inhibitors: Highlights of Noveon's Dr. Zahid Amjad presentation of "**A Kinetic and Morphological Investigation on the Precipitation of Calcium Carbonate in the Presence of Inhibitors**" ([NACE 06385](#)) at NACE International's Corrosion/2006 include:

- Under high stressed water chemistries, neither phosphonates nor any type of polymeric inhibitors completely prevent the precipitation of CaCO₃.
- Blends of K-798 (a AA:SA:SS terpolymer) with PBTC exhibit synergistic influence on the precipitation of CaCO₃.

Iron Oxide Dispersants: Key conclusions from Noveon's paper entitled "**Particle Size and Microscopic Investigation of Iron Oxide Foulants**" ([AWT-2006](#)) presented at the Association of Water Technologies 2006 Annual Convention are as follows:

- Dispersants alter iron oxide particle size distributions by de-agglomeration or reducing iron oxide particle size: breaking down large particles into small particles. Generally, the more particle size alteration the more effective the dispersant.
- Polymer architecture and molecular weight exhibit significant influence in dispersant properties as measured by reduction in particle size. K-781 (a AA:SA:SS terpolymer) was the most effective dispersant and its properties may be attributed to the strong adsorption characteristics of its two sulfonated co-monomers that collectively impart significant negative charge to iron oxide particles causing de-agglomeration of larger particles; thereby creating more smaller particles that are more readily dispersed.

Electronic copies of these papers as well as many others may be viewed using the following web link:

http://www.noveon.com/products/dispersants_watertreatment/techpapers.asp

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USDA Approved Polymers

Noveon is in the process of making a minor compositional change (e.g., replacing a GRAS [generally recognized as safe] material with an alternative form of this GRAS material at <2,000 ppm as a biostat) for several of the Good-Rite K-700 polymers. However, Noveon believes this minor change will have no adverse impact on the suitability of the Good-Rite K-700 polymers for the uses previously evaluated and approved by the USDA as ingredients for use in G5, G6, and G7 applications. A customer letter providing more details and an updated USDA Status TDS for the K-700 polymers may be viewed using the following web link:

<http://www.noveon.com/goodrite/USDASTATUS.pdf>

Seasons Greetings and Best Wishes for the New Year!

Please contact your local Noveon sales office or sales representative with any questions or comments.



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<http://www.noveon.com/products/dispersants/watertreatment>

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Contact your local Noveon sales representative or office with any questions. You can obtain the name of the Good-Rite K-700 polymer sales representative, distributor, or agent for your area by contacting Noveon's regional office (**Cleveland, OH, USA for the Americas; Barcelona, Spain for Europe, the Middle East, and Africa; or PR China for the Asia-Pacific region**) for your location.

Please notify Noveon <bob.zuhl@noveon.com> of any changes in your address, telephone No., or FAX No.