



# Good-Rite® K-700

## WATER TREATMENT POLYMER NEWS

The "Good-Rite® K-700 Water Treatment Polymer News" serves 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:

[Online Water Treatment Polymer News](#)

### AWT-F-04 Technical Paper and Several Others Now Available on Web Site

A technical paper entitled "*The Use of Polymers to Improve Control of Calcium Phosphonate and Calcium Carbonate in High Stressed Cooling Water Systems*" (AWT-F-04) was presented by Noveon's Dr. Zahid Amjad at the Association of Water Technologies 2004 Annual Convention (Nov 3 to 6) in Nashville, TN. In this work, Noveon sought to identify water chemistries where the potential exists for calcium-phosphonate salts precipitation and determine the feasibility of using deposit control polymers (DCPs) to prevent the deposition of unwanted salts on heat exchangers. In this study, a sulfonic acid containing terpolymer (AST) was identified as an effective inhibitor for calcium phosphonates and  $\text{CaCO}_3$  especially when blended with 2-phosphonobutane 1,2,4-tricarboxylic acid (or PBTC; high performance phosphonate) for highly scaling waters (i.e., 180x and 223x calcite saturation; LSI >2.75). Finally, the ability of phosphonates, DCPs, and phosphonate/polymer blends to change  $\text{CaCO}_3$  crystal morphology was also explored.

Noveon's growing electronic library of water treatment chemical technical papers was expanded by more than six items including the AWT-F-04 technical paper mentioned above and other classics dating back to 1989. You will also find several other technical papers including NACE-88-11, TSD-34(1997)<sup>2</sup>, and TSD-36(1999)<sup>3</sup> that address the control of  $\text{CaCO}_3$  or Ca-phosphonate salts in aqueous systems. All these papers are available for viewing via the following web link below (check it out!). We welcome your feedback.

[Online Water Treatment Technical Papers](#)

### New and/or Updated Product Literature Available

During 2004, Noveon created and/or updated several product data sheets and technical bulletins pertaining to the Good-Rite K-700 polymers and their use including:

- A new technical data sheet that presents an overview of "*Suppliers of Field Tests for Deposit Control Polymers*" (GR-SFTDCP).
- Updated product family and technical data sheets for "*GRK765 and GRK766 Sodium Polymethacrylates*" (GRK700-NaPMAAs) and "*GRK766 Sodium Polymethacrylate*" (GRK766-TDS), respectively and the technical data sheet addressing the "*FDA Status of Good-Rite K-700 Polymers*" (GRK700-FDA-WTC).
- A new technical data sheet detailing "*Methods for Determination of Silica Concentrations in Aqueous Solutions*" (MDSCAS) and Noveon's "*Silica Polymerization Inhibition Test Procedure*" (Silica-PITP).
- New *letters to address customer questions* regarding Good-Rite K-700 polymers relative to CONEG model toxics legislation, environmental impacts, kosher status, and ozone depleting chemicals.

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