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# T ECHNICAL BULLETIN

**NTB-018**

**June 20, 2005**

**Subject: New and Improved Materials for  
Series 500XP and 610XP**

**Description of the Change:**

- The Series 500 polyphenylene sulfide (PPS) Ryton® material is replaced with a new novolac epoxy resin, reinforced with graphite fibers. The size range for the New Series 500XP ball valves will be extended to 1” - 8”, compared to the current limit of 1” - 4”.
- The Series 610 epoxy (Shell Epon® 828) material is replaced with the same new novolac epoxy resin, reinforced with fiberglass. The new 610XP is available in sizes 1” through 8”.

**Purpose of the Change:**

- The New 500XP Series material will extend the operating range of the 500 series to 98% sulfuric acid, while performing well in aggressive solvents such as methylene chloride, acetone and MIBK. In addition, the size range for these services will be extended to 8” as noted above.
- The New 610XP Series out-performs the old 610 in almost any chemical application. It will be particularly cost-effective in HCL applications with organic solvent contamination, for which the best solution today is the 300 Series. The New 500XP series extends our size range for caustic solutions to 8”.

**Piping Compatibility**

The New 500XP and 610XP materials are very similar to the premium epoxy used by Smith-Fibercast in their Z-Core® piping and fittings. Customers with Z-Core® piping specifications or installations therefore represent good prospects for our new materials.

**Chemical Compatibility**

- A Chemical Resistance Guide has been prepared for the new materials. This guide is *Catalog 1000-Supp*, and lists only the chemicals for which there is information available for the new resin.
- Please continue to use the current Catalog 1000 for complete information on the 300, 310, 410 and 510 resins.

**Availability**

The New 500XP and 610XP materials will be phased into production as soon as we deplete the stock of existing materials. The 500 Series will be the first to change, followed by the 610. During this transition, please contact the factory regarding any application you have for the 500 and 610 products. The factory will issue weekly updates on the status and outlook via e-mail to all distributors until the transition is complete.

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