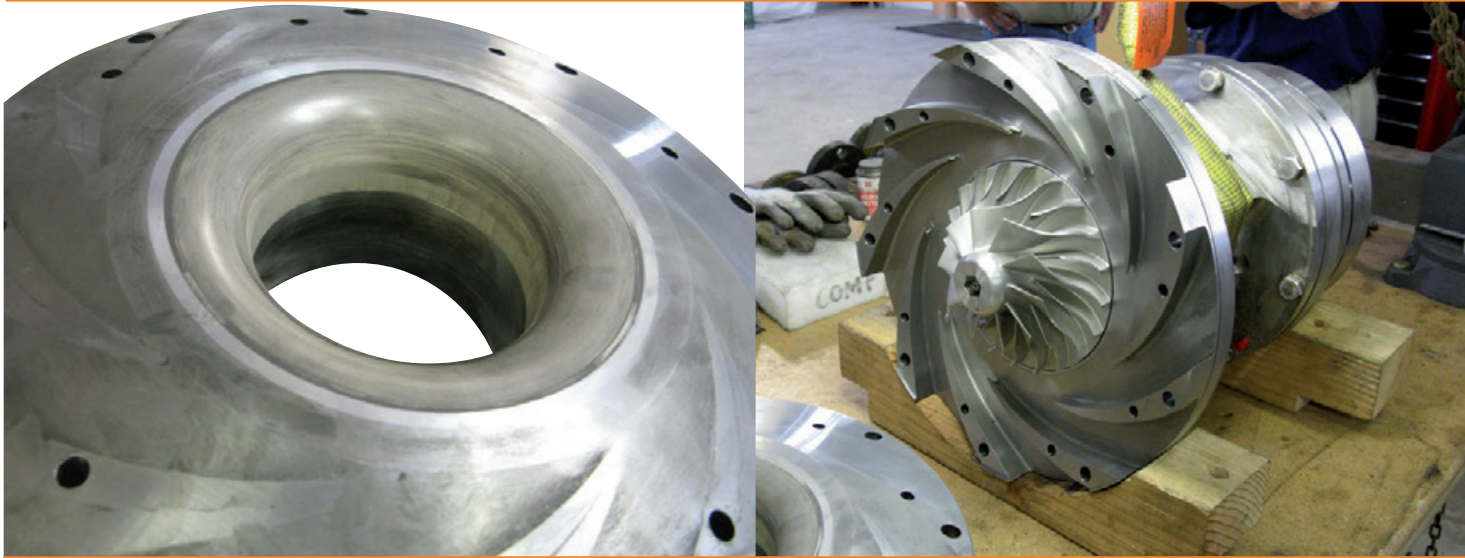


Diffusers And Shrouds



Do you want to tighten the clearance between your diffuser and impeller? Have you ever replaced an impeller due to rubbing?

Quadrant's Fluorosint® 500 material has been the industry standard for abradable polymer seals for over forty years. In gas distribution pump systems, surges are common. To offset the problem large clearances between impellers and diffusers are established and leads to low efficient machines. To reduce the clearance and improve compressor performance adding Fluorosint® 500 shroud inserts is the answer. As a bonus, along with the efficiency gains, Fluorosint® 500 becomes the sacrificial component keeping the high priced impeller from being destroyed if contact is made.

Trends In Turbo Compressor Market

- Improved efficiency and reliability in compressors
- Eliminate destruction of impeller in surged compressors
- Reduced chemical corrosion
- Provide longer life material than thin coated films
- Cost effective solutions, easy to manufacture

Quadrant Answers

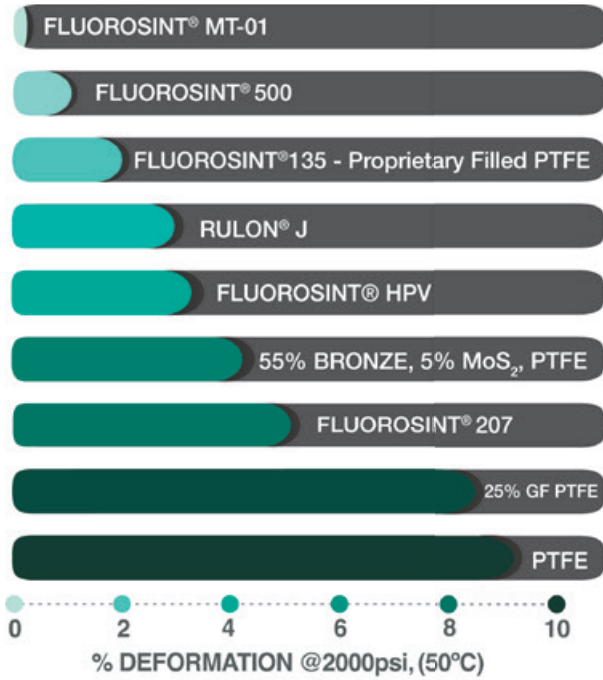
- Fluorosint® 500 stiffness at elevated temperature
- Coefficient of Linear Thermal Expansion similar to aluminum
- High resistance to fuels, lubricants and chemicals
- Near net shapes, machining and molded parts

Key Benefits

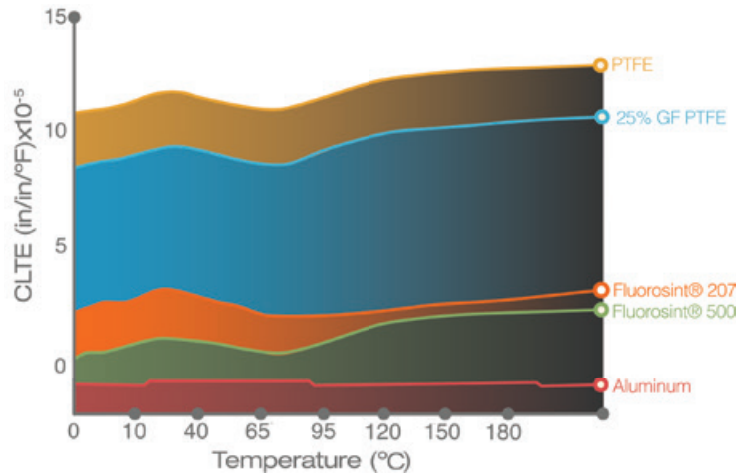
- Increased compressor efficiency
- Reduced repair on impellers
- Increased design capabilities
- Reduced downtime
- Lower cost in service
- NORSOK M-710 (sour gas aging) compliance for Ketron® PEEK stock shapes

Diffusers and Shrouds

Deformation Under Load

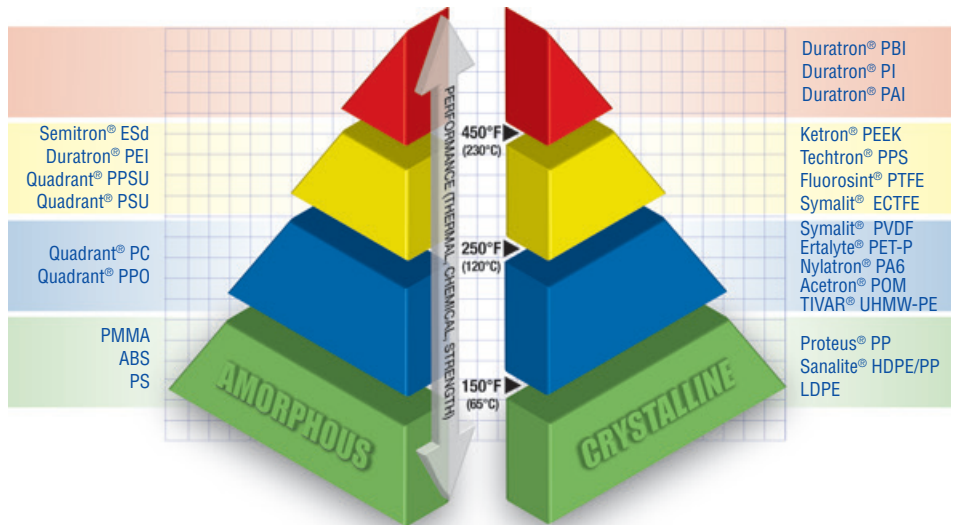


Coefficients of Linear Thermal Expansion



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