



# Fluorosint® 500 PTFE

## Diffusers and Shrouds

### Challenge

#### Tighten the clearance between your diffuser and impeller

Mitsubishi Chemical Advanced Materials Fluorosint® 500 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, this leads to low machine efficiency. To reduce the clearance and improve compressor performance add Our Fluorosint® 500 shroud inserts. In addition to efficiency gains, our Fluorosint® 500 becomes the sacrificial component keeping the high priced impeller from being destroyed if contact is made.



Shroud Seals



Impeller



### Customer Benefits

- Increased compressor production capabilities
- 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

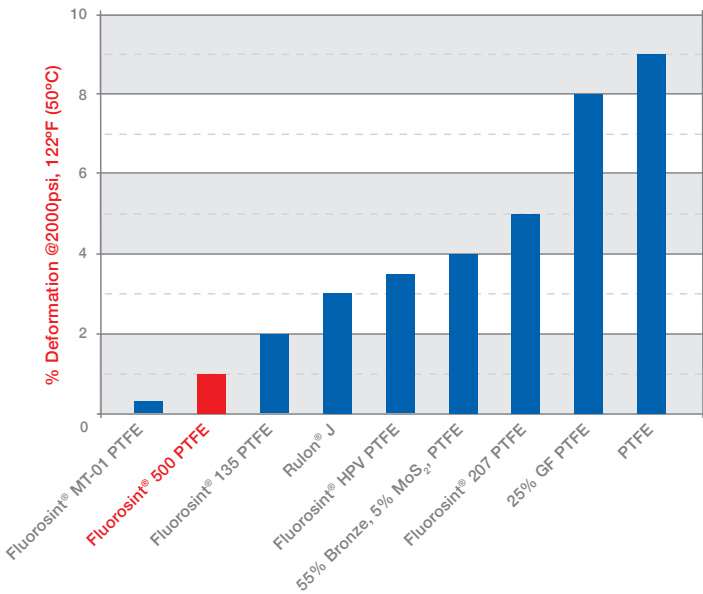
# Trends In Turbo Compressor Market

- 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
- Ease to manufacture

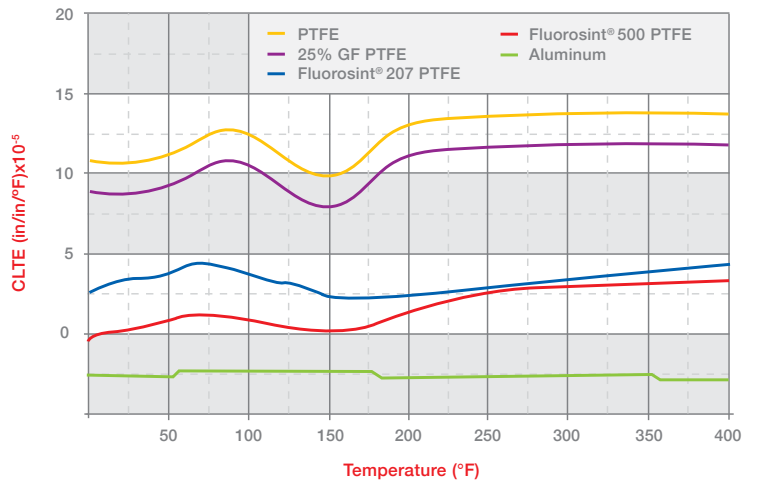
# Mitsubishi Chemical Advanced Materials Added Value

- 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

Deformation Under Load



Coefficients of Linear Thermal Expansion



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