MITSUBISHI CHEMICAL ADVANCED MATERIALS

Chemical / Oil & Gas Processing

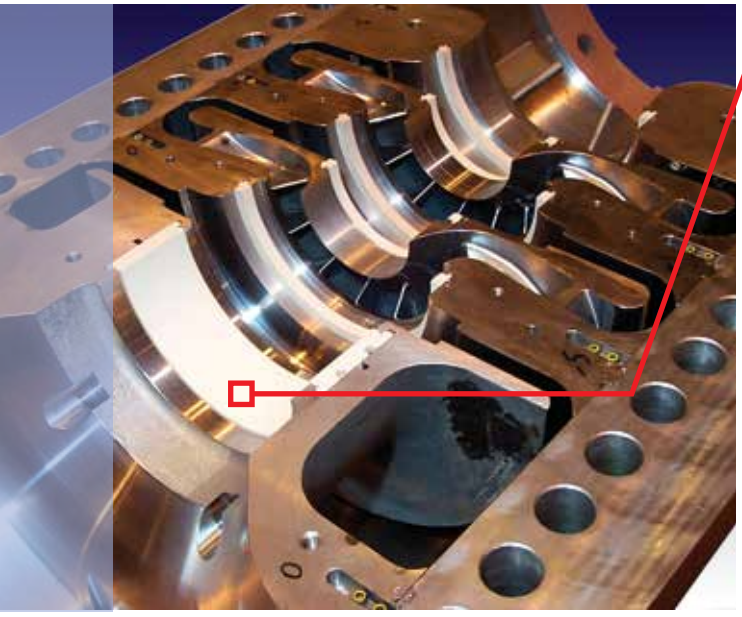
Fluorosint® 500

Abradable Polymer Labyrinth Seal

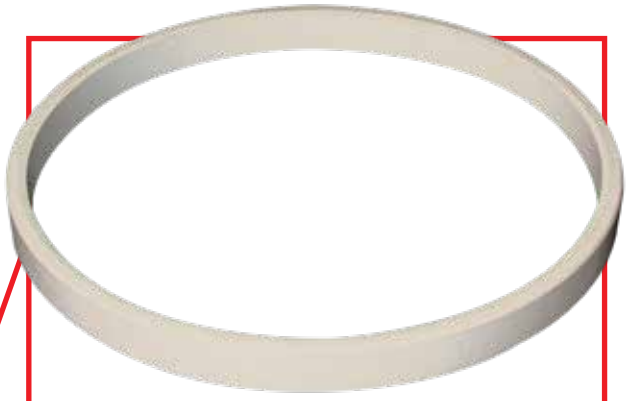
Challenge

Improve compressor seal efficiency

Fluorosint® 500 material has been the industry standard for abradable polymer seals for over forty years. Mitsubishi Chemical Advanced Materials' Fluorosint® seals allow for superior sealing efficiency without destroying shaft labyrinth teeth.



Cross-section of horizontally split high-performance process compressor utilizing polymer labyrinth seals. Photography courtesy of Elliott-Company Div. of Ebara Corporation



Abradable Polymer Labyrinth Seals

Key Requirements

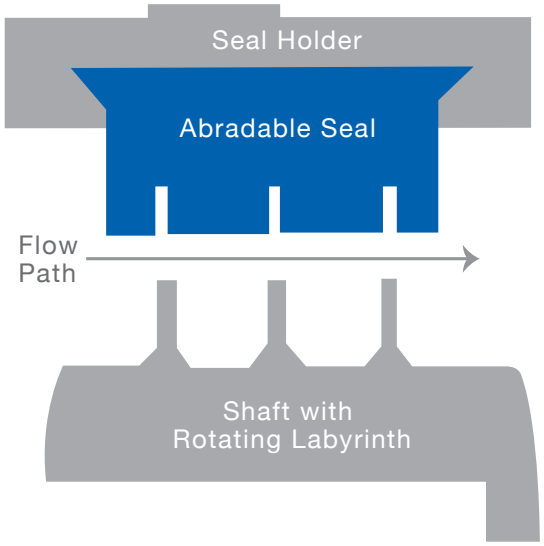
- Increased compressor efficiency
- Increased design capabilities
- Reduced downtime
- Lower cost in service
- NORSOK M-710 (sour gas aging) compliance for Ketron® PEEK stock shapes

Customer Benefits

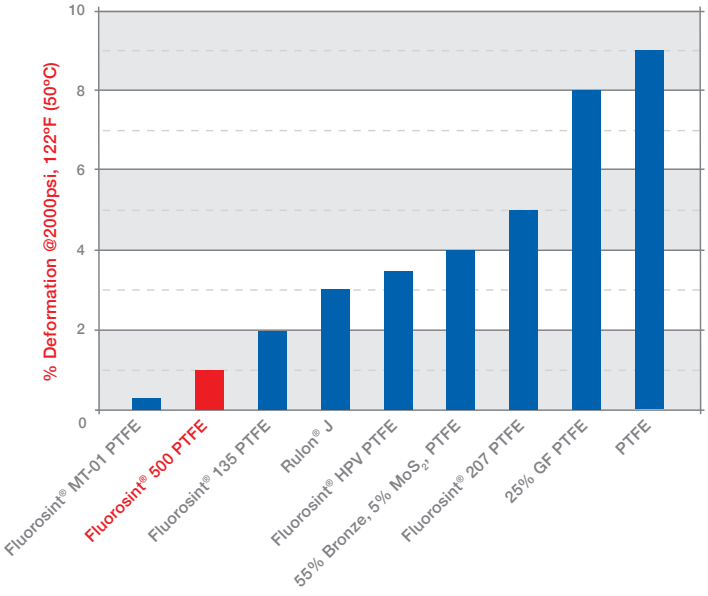
- Improved efficiency and reliability in compressor seals
- Reduced chemical corrosion
- Increased seal life in fouling gas services
- Cost effective solutions, ease to manufacture

Mitsubishi Chemical Advanced Materials Added Value

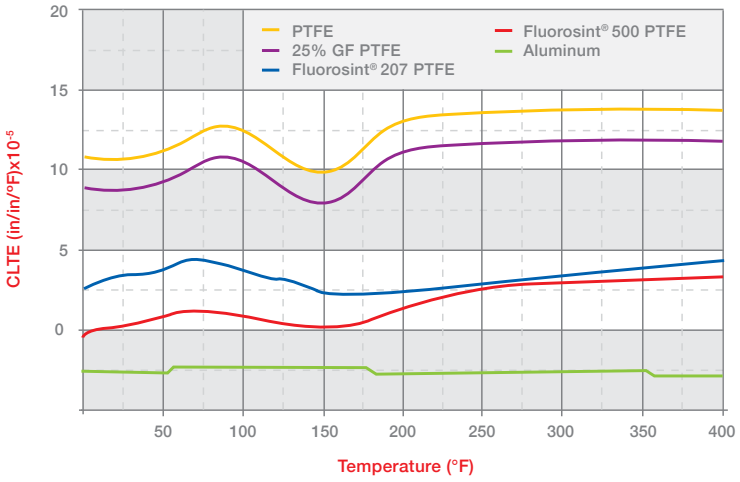
- Fluorosint® 500 has continuous service temperatures up to 500˚F / 260˚C for compressor labyrinth seal applications
- Coefficient of Linear Thermal Expansion similar to aluminum
- High resistance to fuels, lubricants and chemicals
- Near net shapes, machining and molded parts



Deformation Under Load



Coefficients of Linear Thermal Expansion



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