

SubFab

Semiconductor Solutions

Chemraz® SubFab

Chemraz® SubFab is a first-to-market total sealing solution that is specifically designed to withstand the highly corrosive environments that are commonly seen in today's subfab applications. Many conventional sealing materials such as fluoroelastomers can no longer handle the increasing temperatures and chemical exposure found in many subfab applications – making Chemraz® SubFab a top choice when sealing system upgrades are needed.

By using Greene Tweed's Chemraz® sealing solutions, customers can benefit from an increased MTBR (mean time between failure), and numerous of other advantages:

- Improved reliability
- Enhanced repeatability
- Maximum system uptime
- Lower cost of ownership

Applications

- ISO-KF vacuum fittings, including typical sizes: KF10, KF16, KF25, KF40, KF50, ISO63, ISO80, ISO100, ISO160, ISO200 and ISO250
- Interconnecting vacuum piping in the SubFab
- Forelines
- Rough pumps
- Gas abatement systems/scrubbers
- SubFab valves

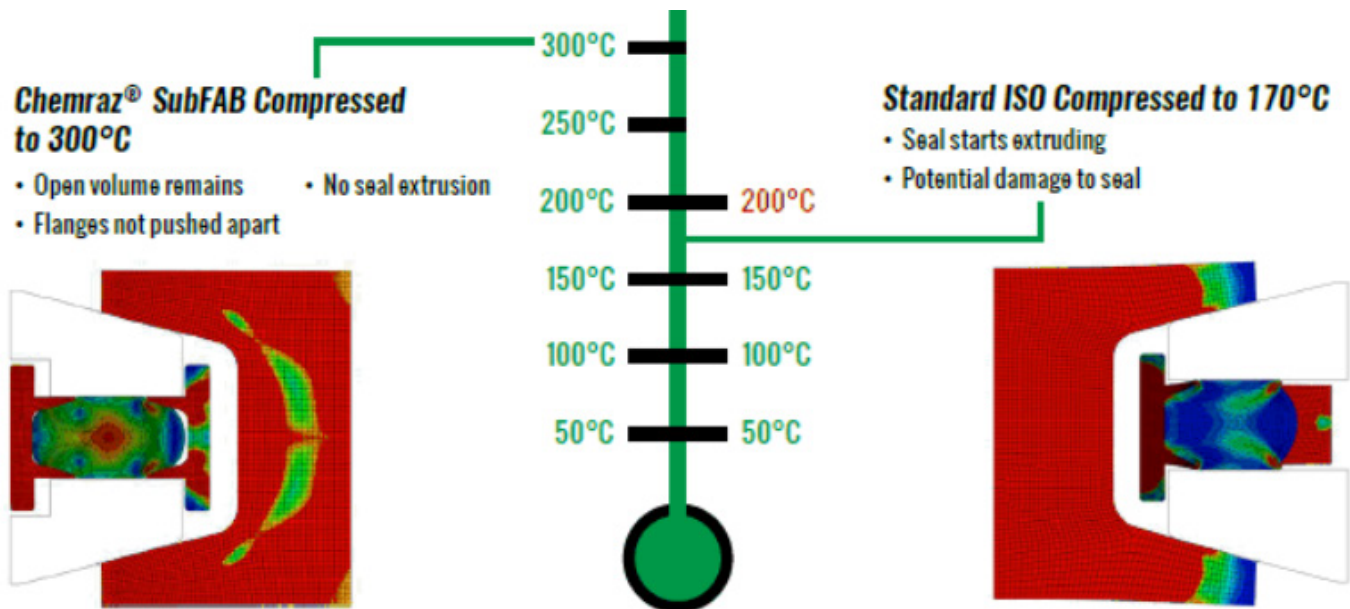


Features & Benefits

- Broad chemical resistance to typical subfab effluents, including fluorine and oxygen
- 300°C operating temperature capability
- Low cost of ownership, whether upgrading from FKM or looking to lower costs
- Patent pending, optimal high-temperature seal design accounts for the limitations of the KF fittings that can lead to elevated stress in the seal materials and premature failures
- Optimized physical properties for long life in static vacuum fittings
- Unique color to distinguish it from typical perfluoroelastomers and fluorocarbon elastomers

Chemraz® SubFab vs. Standard ISO

As shown in the graphic below, Chemraz® SubFab withstands temperatures as high as 300°C under compression without failure, while others can fail at approximately half the temperature.



The Greene Tweed Advantage

Greene Tweed has been developing high-performance sealing solutions to withstand the extreme conditions in semiconductor fabrication since the 1980s, and has continually evolved to meet the increasingly demanding needs of the industry.

Greene Tweed leverages decades of engineering and applications expertise to design customized solutions, including material selection and hardware designs based on specific operating environments, such as acids, solvents, bases, and ultra-pure H₂O applications.

Greene Tweed

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