

Advanced Materials & Sealing Solutions

# FOR CRITICAL & SEVERE SERVICE INDUSTRIAL VALVES

**Greene Tweed offers an extensive portfolio of proven solutions chosen by industrial valve leaders for critical applications.**

## O-Ring

- Reliable and economical seal solution



## MSE® Lip Seal

- Almost universal chemical resistance
- Broad temperature and pressure range



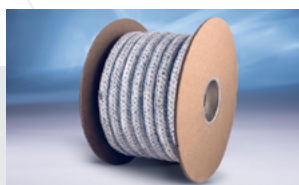
## Seal Stacks

- Low leakage (as low as <2 ppm)
- Redundant sealing, self-energized



## Palmetto Packings

- Braided packing (PTFE, Graphite, Aramid, etc.)
- Sold and distributed worldwide



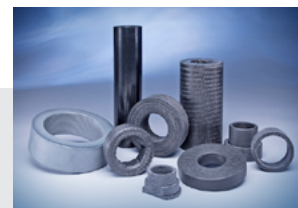
## GT® Rings

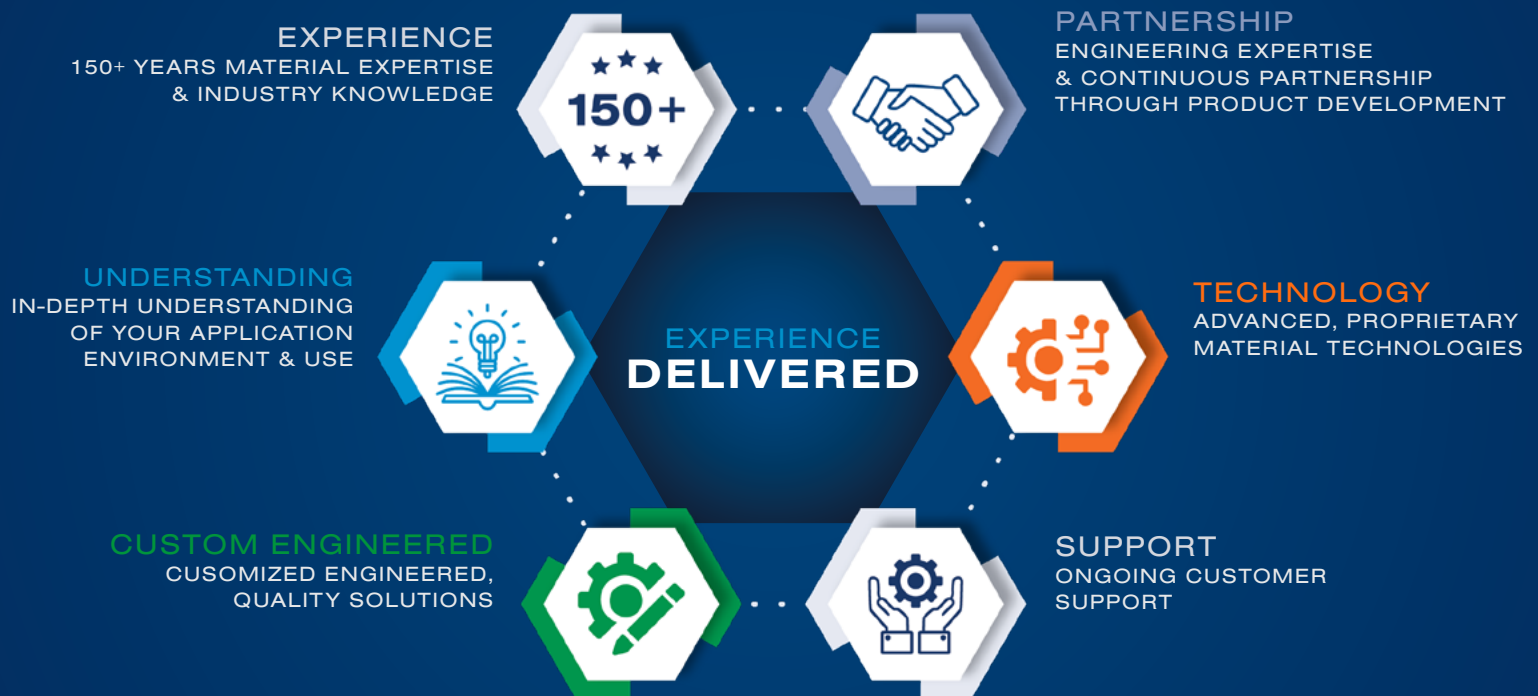
- Suitable for static as well as dynamic applications
- Integrated, pressure-energized anti-extrusion rings



## Custom Plastic & Elastomer Products

- Extensive manufacturing capabilities, including backup rings, valve seats, bushings, bearings, washers, spacers, vee rings and stock shapes.
- Severe service materials certified to API 6A, ISO 23936, NORSOK M-710, Total GS EP PVV 142 and Saudi Aramco 06-SAMSS-001
- Broad portfolio of material grades: Arlon® PEEK, Avalon® PTFE, Fusion® FKM, Fluoraz® FEPM, Chemraz® FFKM, Xyfluor®, EPM, NBR, HNBR, WR® and AR® specialty bearing grades and more
- Proprietary Arlon 3000XT® crosslinked PEEK for particularly severe high temperature or high pressure/load service.





## OUR PROVEN TRACK RECORD

- Increase overall equipment reliability with Greene Tweed's proven sealing solutions, validated to perform in severe service at high temperatures and low temperatures, in harsh chemicals at high pressures even when exposed to RGD
- Critical service materials certified to:
  - API 6A
  - ISO 23936 & NORSOK M-710
  - Total GS EP PVV 142
  - Saudi Aramco 06-SAMSS-001
  - FDA 21 CFR Section 177.1550
  - USP Class VI
  - NSF & WRAS
- Innovative materials and products
- Reduce fugitive emissions
- Enables standardization (speed to repair, material selections, inventory, turnkey)
- Reduce total cost of ownership
- Materials Testing Lab - Quality control of raw materials, ISO 17025 certified
- Product Testing Lab - Sealing pressure vessel test rig to validate seal performance through temperature and pressure cycling testing, custom static and dynamic seal testing, RGD testing
- Finite Elements Analysis (FEA)
- Engineering failure analysis and root cause identification



## Greene Tweed

1684 South Broad Street | Lansdale, PA 19446 USA | Phone: (+1) (215) 256-9521 | [gtweed.com](http://gtweed.com)

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