

ProTechna®

Superior Protection in Severe Environments

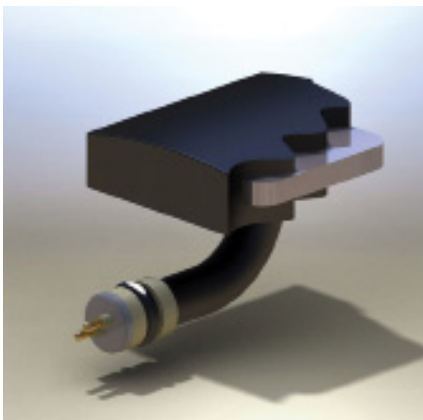


Illustration incorporating Seal-Connect, ProTechna technology

Applications

- MWD (measurement while drilling)/ LWD (logging while drilling) and Wireline
 - Sensors
 - Antennas
 - Electrodes
 - Magnets or flux-generating coils (toroids)
 - Pressure gauges
 - Temperature sensors
- Extreme subsea applications

Enhanced Reliability

Greene Tweed's ProTechna® technology uses thermoplastic and elastomeric solutions to provide a new level of protection for critical components such as antennas, electronics, and sensors in extreme environments.

ProTechna® shields sensitive components, thereby eliminating direct exposure to erosion, corrosion, and abrasion resulting from downhole conditions. It also provides protection from extreme temperatures, pressures, and harsh chemicals. This new technology provides the superior performance of filled and unfilled Arlon® grades of PEEK and PEK as well as the high-temperature and chemical-resistant characteristics offered by both Chemraz® FFKM and FKM elastomers.

In addition to enhancing the reliability of electrical devices in harsh environments, Greene Tweed's ProTechna® technology allows customers to integrate a variety of components including Greene Tweed's Seal-Connect® product line into one assembly, thus reducing the number of parts needed. This allows customers to design their tools using "plug and play" functionality for easy field redressing.

Greene Tweed evaluates each customer's application and uses its technical expertise in materials, engineering, and design and partners with customers to select the material that will provide the best level of protection and performance for integrated and critical components.

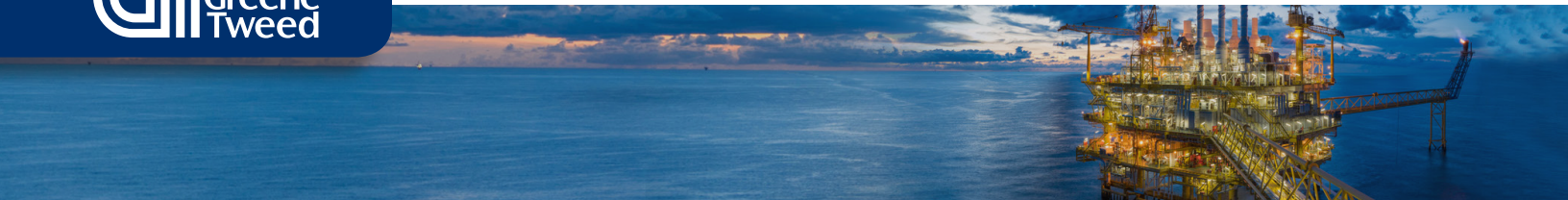
Contact Us

Greene Tweed
Houston, TX, USA

Tel: +1.281.765.4500
Fax: +1.281.821.2696

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.
© 2018, Greene Tweed all rights reserved. All trademarks are property of their respective owners.

EN-DS036-US-08-17-2016



Features and Benefits

- Enhanced chemical and thermal protection increases reliability and efficiency of electrical components, thereby extending component lifetime
- Wide range of thermoplastic and elastomeric materials (e.g., Chemraz[®], Arlon[®]) offers customers a variety of solutions
- Allows sensors to be placed outside the tool, enhancing communication logs and increasing data reliability
- Consolidation of multiple pieces into one part reduces the number of parts needed for assembly and simplifies the design
- Enhanced bonding technology builds a stronger bond than conventional adhesive technologies, eliminating gaps between material and substrate
- Plug and play components are easily replaced in the field, saving time and the expense of the redress process

Available Materials

- Elastomers
 - Chemraz[®]
 - FKM
 - Silicone
 - Xyfluor[®]
- Thermoplastics
 - Arlon[®]

Note: Temperature, chemical resistance, and pressure extremes, etc., will vary with each application requirement.

Contact Us

Greene Tweed
Houston, TX, USA

Tel: +1.281.765.4500
Fax: +1.281.821.2696

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.
© 2018, Greene Tweed all rights reserved. All trademarks are property of their respective owners.

EN-DS036-US-08-17-2016