

SOFT SWELLEX™ GASKETS

SWELLEX™ is a registered trademark of the Durox Company

Superior self-loading multi-purpose gasketing material

Soft Swellex™ is a Durox proprietary controlled swell compressed sheet gasket material that creates its own load when it comes into contact with oil or water. This controlled swell provides superior conformation to irregular surfaces created by worn flange surfaces. Because the material does not degrade in contact with oil or water it is the ideal gasket material for wide-ranging applications.

Twice as soft as conventional gaskets, Soft Swellex™ provides excellent sealing in applications with low flange loading.

BENEFITS

- The unique blend of synthetic fibers with custom blend rubber binders creates comprehensive load in light weight flanges in oil and water
- The load created by the proprietary controlled swell provides and retains superior torque retention
- More compressible than standard fiber gaskets and seals with lower flange loading
- Because its crush strength is many times higher than a rubber gasket, it provides excellent sealing in applications that would crush the tradition rubber seals
- The compressed material will not wick or weep system fluids which leads to superior machinery performance and improved plant safety

VALUES

- The variety of elastomers in the blend excel in a wide range of services and replace those products that only swell in oil thus reducing inventory
- Seals worn surfaces on flanges that would traditionally be replaced thus minimizing cost and maintenance
- Eliminates the need to add additional sealants to the gasket or flange surfaces which minimizes installation time
- The flange free release coating on the gasket insures fast and easy removal of the product which provides reduced labor and downtime

IDEAL FOR

- Compressors
- Pumps
- Gear Boxes
- Transformers
- Access Covers
- Generators
- Fuel Pumps
- Cast Water Flanges
- Sight Glasses
- Handhole / Manhole
- Lube Oil Systems

SOFT SWELLEX™

TYPICAL PHYSICAL PROPERTIES

| | |
|------------------------------------|--|
| Material: | Synthetic Fibers w/ Custom Blend Rubber Binder |
| Color: | Off-White |
| Temperature Maximum: | 640 degrees F |
| Temperature Continuous: | 400 degrees F |
| Internal Pressure, Maximum: | 1050 psi |

| | |
|------------------------------|-------------------|
| Recommended Services: | |
| Hot and Cold Oils | Air & Dry Gases |
| Water – Hot and Cold | Non-Contaminating |
| Mild Acid and Alkalis | Ozone Resistant |

ASTM TEST METHOD

| | | |
|-------------------|--|----------------------------------|
| ASTM F37B | Sealability Milliliters/Hr. Leakage ASTM Fuel A (isooctane) Gasket Load, 500 psi Internal Pressure, 9.8 psi | 0.15 |
| | Nitrogen: Gasket Load, 3000 psi Internal Pressure, 30 psi | 0.20 |
| ASTM F36 | Recovery, min. percent | 40% |
| ASTM F36 | Compressibility, percent range | 15-30% |
| ASTM F38 | Creep Relaxation, percent relaxation | 25% max |
| ASTM F146 | Fluid Resistance after Five Hours Immersions: ASTM #1 Oil @ +300 degrees F, Thickness Increase Range Weight Increase ASTM #903 Oil @ +300 degrees F, Thickness Increase Range Weight Increase Dist. H ₂ O @ 68-86 degrees F, Thickness Increase Range | ≥15% 30% 75% 85% 40% |
| ASTM F152 | Tensile Strength – Across Grain psi | 1000 |
| ASTM F1315 | Density – Lbs/Ft ³ | 85 |

This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results are in accordance with ASTM F104. Properties based on 1/32" sheet thickness.

