Durox
A Wabtec company

PRODUCT
INFORMATION

SWELLEX™ GASKETS

Superior self-loading multi-purpose gasketing material

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.

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
- 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

Available in the following thicknesses: **1/64”** **1/32”** **3/64”** **1/16”** **3/32”** **1/8”**

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 F37	Sealability Milliliters/Hr. Leakage ASTM Fuel A (isooctane) Gasket Load, 500 psi Internal Pressure, 9.8 psi	0.2
	Nitrogen: Gasket Load, 3000 psi Internal Pressure, 30 psi	0.5
ASTM F36	Recovery, min. percent	40%
ASTM F36	Compressibility, percent range	7-17%
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	10-25%
	ASTM #3 Oil @ +300 degrees F, Thickness Increase Range	35-85%
	Water, 22 hrs. @ 212 degrees F, Thickness Increase Range	10-35%
ASTM F152	Tensile Strength – Across Grain psi	2000
	Density – Lbs/Ft^3	102
	(Grams/cm^3)	(1.60)

ASTM-F-104 Line Call Out: F712900E45M6
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.