Garlock
An ENPRO Company

Garlock Style 3760 Multi-Swell™ Gasketing

The world's only premier self-loading general service gasketing material



Certified to NSF/ANSI/CAN 61 & 372
for potable water service

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The world's only premier self-loading general use gasketing material

Garlock's proprietary gasketing material—MULTI-SWELL—actually creates its own load when it comes into contact with oil or water. This revolutionary material does not degrade in contact with oils and adapts easily to all types of flange design, so it's ideal for a broad range of applications.

Twice as soft as conventional gaskets, MULTI-SWELL is easy to cut and readily conformable even to irregular flanges, ensuring tight seals with lower loads.

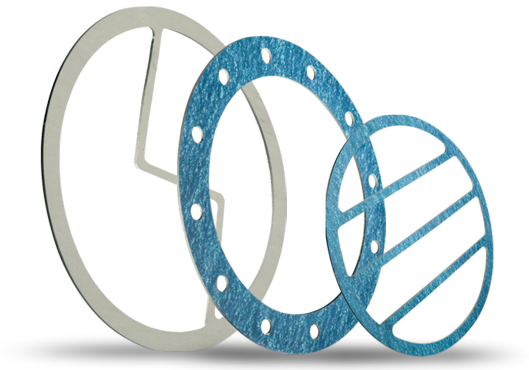
VALUE AND BENEFITS

- Generates compressive load in light weight flanges with oil and water service where traditional gaskets do not seal well
- More universal than gaskets that swell in oil only — reduces inventory
- Performs well in flanges that might crush an elastomer, providing use in a wide array of applications
- Since 3760's crush strength is many times higher than a rubber gasket, it can be safely used in applications that would typically crush elastomeric gaskets.
- More compressible than standard fiber gaskets and seals with lower loads
- Easy to cut and handle — extremely flexible, minimizes waste
- Replaces vegetable fiber gaskets in many applications — won't weep or wick system fluids, improving plant safety
- Seals flanges in "less than perfect" condition minimizing maintenance

Certifications

MULTI-SWELL Style 3760 is now certified to NSF/ANSI/CAN 61 & 372. If you are looking for a gasket that is certified for drinking water applications, MULTI-SWELL 3760 is the best choice.

- ANSI Flanges 10" or larger = Any thickness gasket up to and including 1/8"
- ANSI Flanges 6" or larger = Any thickness gasket up to and including 1/16"



IDEAL FOR

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

Garlock Style 3760 Multi-Swell™

TYPICAL PHYSICAL PROPERTIES

ASTM F36	**Compressibility, range, %**	15-30
ASTM F36	**Recovery, %**	40
ASTM F-37B	**Sealability** Milliliters/Hour Leakage **ASTM Fuel A (Isooctane)** Gasket load, 500psi (3.5N/mm²) Internal Pressure, 9.8 psig (0.7bar) **Nitrogen:** Gasket load, 3,000psi (21 N/mm2) Internal pressure, 30 psig (2 bar)	 0.15 0.20
ASTM F146	**Fluid Resistance After 5 Hrs Immersion** ASTM #1 Oil @ 300°F (150°C) Thickness Increase, Typ % Weight Increase, Typ % ASTM IRM #903 Oil @ 300°F (150°C) Thickness Increase, Typ % Weight Increase, Typ % Dist. H_2O (20-30°C) Thickness Increase, Typ %	 ≥15 30 75 85 40
ASTM F152	**Tensile, Across Grain, psi (N/mm²)**	1000 (6.9)
ASTM F1315	**Density, lbs./ft.³ (grams/cm³)**	85 (1.36)

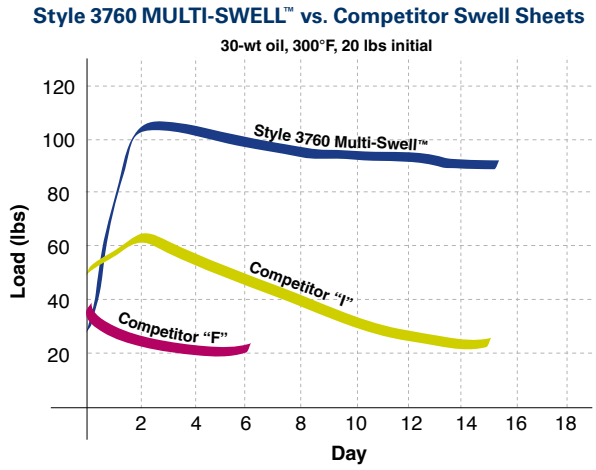
SPECIFICATION

Material of Construction	Synthetic fiber sheet with a proprietary rubber binder
Temperature	Min -100°F (-73°C) Cont. Oper. +400°F (+205°C)
PxT (max)*, (psig x °F)(bar x °C)	150,000 (5,100) 1/16" and 1/32" 100,000 (3,400) 1/8"
Pressure	500 psig (35 bar)

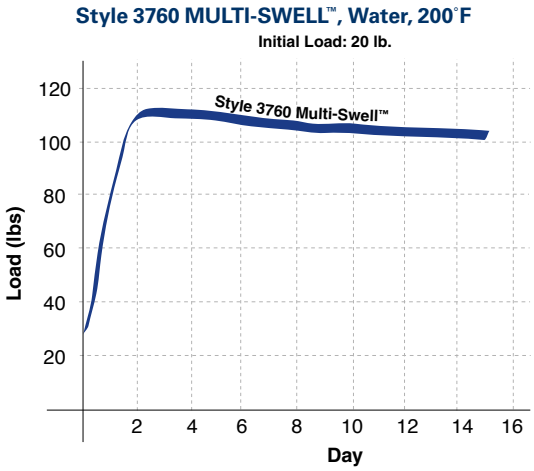
NOTE: This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results are in accordance with ASTM F104; properties based on 1/32" (0.8mm) sheet thickness (except as noted).

** PxT = psig x °F (bar x°C)*

Oil



Water



Garlock

Chemical Resistance Compatibility Chart

CHEMICAL RESISTANCE RATING
A - Ideal for low pressure applications
B - Fair, Depends on conditions; please contact Applications Engineering
C - Unsuitable
– - Insufficient Data- Contact Applications Eng.

SWELL RATING
Y - Gasket will swell
N - Gasket will not swell
M - Gasket may swell, customer evaluation is recommended

Medium	Rating	Swell
Air	A	N
Ammonium Chloride	A	M
Asphalt	B	Y
Aviation Gasoline	B	Y
Bio-Diesel (B100)	A	Y
Bleach (Sodium Hyprochlorite)	C	M
Boiler Feed Water	A	Y
Brine (Sodium Chloride)	A	Y
Butyl Alchohol, Butanol	A	M
Calcium Chloride	A	M
Carbon Dioxide, Dry	A	M
Carbon Dioxide, Wet	A	M
Castor Oil	A	Y
Corn Oil	A	Y
Cotton Seed Oil	A	Y
Creosote	B	Y
Crude Oil	A	Y
Detergent Solutions	B	M
Diesel Oil	A	Y
Dowfrost	A	Y
Dowfrost HD	B	N
Dowtherm 4000	B	N
Dowtherm A, E, G, HT, J, Q	C	Y
Dowtherm SR-1	B	N
E85 (85% Ethanol, 15% Gas)	A	Y
Ethylene	B	M
Ethylene Glycol	A	N
Fuel Oil	A	Y
Gasoline, Refined	B	Y
Gasoline, Sour	B	Y
Glyerine, Glycerol	A	M
Glycol	A	M
Grease, Petroleum Base	A	Y
Heptane	B	Y
Hexane	B	Y
Hydraulic Oil, Mineral	A	Y
Hydraulic Oil, Synthetic	B	M
Hydrogen	A	M
Isobutane	B	Y
Isooctane	B	Y
Isopropyl Alchohol	A	N
Jet Fuels (JP Types)	B	Y
Kerosene	B	Y
Lacquer Solvents	C	M
Linseed Oils	A	Y
Lubricating Oils		
Mineral or Petroleum Types	A	Y
Refined	A	Y
Sour	B	Y
Methyl Alcohol	A	M
Methyl Ethyl Ketone	C	M
Mineral Oils	A	Y
Mobiltherm 600	B	Y
Mobiltherm 603	B	Y
Mobiltherm 605	B	Y
Mobiltherm Light	B	Y
MultiTherm 100	B	Y
MultiTherm 503	C	Y
MultiTherm IG-2	B	Y
MultiTherm PG-1	B	Y
Naptha	C	M
Natural Gas	B[1]	Y
Octane	C	M
Oil, Animal and Vegetable	A	Y
Oil, Petroleum - Crude or Refined	A	Y
Paraffin	B	M
Paratherm HE	B	Y
Paratherm NF	B	Y
PolyAlpha Olefin (PAO)	A	Y
Propyl Alcohol	A	N
Refigerants		
10	C	M
11	C	M
12, 13, 13B1	A	M
21	C	M
22	B	M
23, 31	A	M
32	A	N
112	C	M
113, 114	A	M
114B2	C	M
115	A	M
123	C	Y
124, 125, 134a	A	N
141b	-	M
142b, 143a, 152a	A	N
218	A	M
290	C	M
500	-	M
502, 503	A	M
507	-	N
717 (Ammonia)	B[1]	M
744 (Carbon Dioxide)	A	N
C316, C318	A	M
HP62, HP80, HP81	-	M
Salt Water	A	Y
Sewage	A	Y
Soap Solutions	A	M
Sodium Chloride	A	M
Soybean Oil	A	Y
Syltherm 800, XLT	B[1]	N
Therminol 44, 55, 59, 60, 66, 75	C	Y
Therminol D12	B[1]	Y
Therminol LT	C	Y
Therminol VP-1	C	Y
Therminol XP	B[1]	Y
Toluene	C	Y
Transformer Oil (Mineral Type)	A	Y
Transmission Fluid A	A	Y
Tung Oil	B	Y
Turpentine	B	M
UCON Heat Transfer Fluid 500	B	N
UCON Process Fluid WS	B	N
Varnish	C	M
Water - Distilled	A	Y
Water - Return Condensate	B	Y
Water - Seawater	A	Y
Water - Tap	A	Y
Wood Alcohol	A	M
Xceltherm 550	C	M
Xceltherm 600	B	Y
Xceltherm MK1	C	Y
Xceltherm XT	C	Y
Xylene	C	Y

NOTES
Consult factory regarding your applications

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