

Sanitary Seal Division

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Tyflur™ 1000 Sanitary Gaskets

- Chemically Inert
- Virtually Zero Extractables
- Low Deformation Under Load
- Low Stress Relaxation
- Unmatched Steam and Caustic Resistance
- Perfect for SIP and CIP Applications
- Gas-tight sealing in ultra-pure environments

Tyflur 1000 is a chemically modified version of PTFE that provides much improved sealing capabilities while maintaining the property characteristics consistent with virgin PTFE material. Tyflur's chemical inertness and extremely low level extractables combined with its superior stress relaxation and low deformation characteristics make it an ideal gasket and seal material for the pharmaceutical and biotechnology industries.

Clamp gaskets made from Tyflur 1000 provide a much higher level of performance when compared to conventional PTFE products used in pharmaceutical and hygienic applications. They also perform better in applications with frequent thermal cycling or vibration. Tyflur gaskets prevent intrusion into pipe fittings and do not create issues related to flow restrictions or cross contamination.

The broad capabilities of Tyflur gaskets allows for gasket inventory reduction.

Tyflur 1000 is FDA and USP Class VI (toxicity) compliant.

TYPICAL PROPERTIES

Physical Properties	ASTM Method	Typical Value
Color		White
Specific Gravity	D1457	2.18
Elongation @ Break %	D1457	450
Tensile Strength @ Break, psi	D1457	5000
Permanent Deformation Under 20000 psi @ 78°F/26°C (%)	D621	3.2
Service Temperature Range		-200°F to 500°F (-128°C to 260°C)

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 for this product.

Prior to actual use it is highly recommended that suitable tests be run to determine this product's suitability in a specific application. This is critical where failure could result in injury or damage.



Compatibility Guide for Common Chemicals Used in CIP Processes

	EPDM	BUNA-N	Silicone	FKM	Sanifluor [®]	Viton [®] X	PTFE	Tyfluor
Acetone	1	4	4	4	4	2	1	1
Ammonia	1	2	2	4	4	4	1	1
Hydrochloric Acid	3	4	4	1	1	1	1	1
Hydrofluoric Acid	3	4	4	3	2	3	1	1
Hydrogen Peroxide	4	2	2	2	1	1	1	1
Isopropyl Alcohol	1	2	1	1	1	1	1	1
Nitric Acid	2	4	2	1	2	1	1	1
Phosphoric Acid	1	2	2	1	1	1	1	1
Sodium Hydroxide	1	2	2	2	1	1	1	1
Sodium Hypochlorite	2	2	2	1	1	1	1	1
Sulfuric Acid	2	3	4	1	1	1	1	1
Steam to 400°F (204°C)	3	4	4	4	1	3	3	3

1 – Excellent 2 – Good 3 – Limited 4 – Not Recommended

Viton[®] is a registered trademark of DuPont Performance Elastomers

Part Numbers for High Performance Sanitary Gasket Materials

	1"	1½"	2"	2½"	3"	4"
Viton [®] X	40MP-FLX 1	40MP-FLX 1½	40MP-FLX 2	40MP-FLX 2½	40MP-FLX 3	40MP-FLX 4
Sanifluor [®]	40MP-FEP 1	40MP-FEP 1½	40MP-FEP 2	40MP-FEP 2½	40MP-FEP 3	40MP-FEP 4
Tyfluor [™]	40MP-TY 1	40MP-TY 1½	40MP-TY 2	40MP-TY 2½	40MP-TY 3	40MP-TY 4

Part Numbers for Standard Sanitary Gasket Materials

	1"	1½"	2"	2½"	3"	4"
Buna-N	40MP-U 1	40MP-U 1½	40MP-U 2	40MP-U 2½	40MP-U 3	40MP-U 4
Silicone White	40MP-FXW 1	40MP-FXW 1½	40MP-FXW 2	40MP-FXW 2½	40MP-FXW 3	40MP-FXW 4
Silicone Clear	40MP-FXC 1	40MP-FXC 1½	40MP-FXC 2	40MP-FXC 2½	40MP-FXC 3	40MP-FXC 4
EPDM	40MP-E 1	40MP-E 1½	40MP-E 2	40MP-E 2½	40MP-E 3	40MP-E 4
Viton [®] /FKM	40MP-SFY 1	40MP-SFY 1½	40MP-SFY 2	40MP-SFY 2½	40MP-SFY 3	40MP-SFY 4
PTFE	40MP-G 1	40MP-G 1½	40MP-G 2	40MP-G 2½	40MP-G 3	40MP-G 4