Tyfluor™ 1000
Sanitary Gaskets

Process Technologies Inc
SOLUTIONS • SERVICE • SATISFACTION

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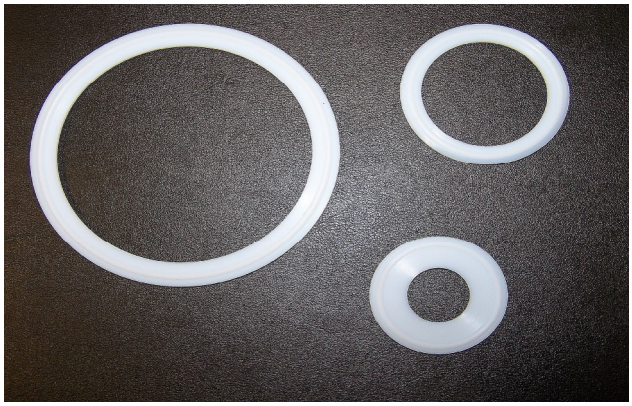

- **Chemically Inert**
- **Virtually Zero Extractables**
- **Low Deformation Under Load**
- **Low Stress Relaxation**
- **Unmatched Steam and Caustic Resistance**
- **Perfect for SIP and CIP Applications**
- **Gas-tight sealing in ultra-pure environments**

Tyfluor 1000 is a chemically modified version of PTFE that provides much improved sealing capabilities while maintaining the property characteristics consistent with virgin PTFE material. Tyfluor'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 Tyfluor 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. Tyfluor gaskets prevent intrusion into pipe fittings and do not create issues related to flow restrictions or cross contamination.

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

Tyfluor 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 @ 78ºF/26ºC (%)	D621	3.2
Service Temperature Range		-200ºF to 500ºF (-128ºC to 260ºC)

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.

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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 400ºF (204ºC)	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"	1-1/2"	2"	2-1/2"	3"	4"
Viton® X	**40MP-FLX 1**	**40MP-FLX 1 1/2**	**40MP-FLX 2**	**40MP-FLX 2 1/2**	**40MP-FLX 3**	**40MP-FLX 4**
Sanifluor®	**40MP-FEP 1**	**40MP-FEP 1 1/2**	**40MP-FEP 2**	**40MP-FEP 2 1/2**	**40MP-FEP 3**	**40MP-FEP 4**
Tyfluor™	**40MP-TY 1**	**40MP-TY 1 1/2**	**40MP-TY 2**	**40MP-TY 2 1/2**	**40MP-TY 3**	**40MP-TY 4**

Part Numbers for Standard Sanitary Gasket Materials

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

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