Sanifluor® 1000

(Formulated Aflas® Elastomer)

FDA and USP O-Rings, Gaskets and Seals

Specifically Compounded For Pharmaceutical and Sanitary Applications

(P):610-603-7546 (F): 610-603-7557 info@ptipro.com

- Excellent Steam and Caustic Resistance up to 400º F (204º C)
- Very Good Chemical Resistance
- LOW TOCs and Metal Extractables
- Longer Life in SIP, CIP and WFI applications
- FDA & USP Class VI Compliant

O-Rings, Gaskets and Seals produced from Sanifluor® 1000 have excellent chemical, heat and steam resistance. They provide superior performance in hot water, steam and virtually all caustics making them ideal for pharmaceutical, medical, biotechnology, food, beverage and cosmetic manufacturers who use steam or caustic chemicals or a combination of both in their sterilization processes. These very aggressive conditions can be too harsh for commonly used sealing materials such as Silicone, EPDM and FKM. Sanifluor® provides excellent performance in SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications.

Sanifluor® 1000 is formulated for use in gaskets and seals where both USP and FDA compliance is required.** It also complies with 3-A Sanitary Standard for multiple-use rubber materials.

Sanifluor® 1000 meets the extractive requirements of FDA 21CFR177.2600.

SANIFLUOR® 1000 TYPICAL PROPERTIES		
Physical Properties	**ASTM Method**	**Typical Value**
Color		Black
Specific Gravity	D297	1.65
Hardness, Shore A. Points	D2240	80
Elongation @ Break %	D1414	170
Modulus @ 50% Elongation, psi	D1414	845
Modulus @ 100% Elongation, psi	D1414	1710
Tensile Strength @ Break, psi	D1412	2600
Service Temperature Range, ºF		23º to 450ºF
Service Temperature Range ºC		-5ºC to 230ºC
Compression Set @ 25% Deflection 70Hours @ 392º F/200ºC, in Air % of original deflection	D395 Method B	30

****On July 23, 2009, The U.S. Food and Drug Administration (FDA) confirmed the compliance of Sanifluor 1000 for repeated use in contact with food by publication of Food Contact Substance Notification (FCN) 000891**

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 s 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.

AFLAS ® is a registered trademark of Asahi Glass Co., Ltd
Sanifluor® is a registered trademark of Process Technologies, Inc.

PROCESS TECHNOLOGIES

SOLUTIONS · SERVICE · SATISFACTION

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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