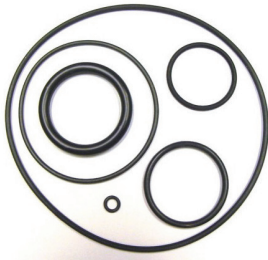


High Performance Seal Division

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Sanifluor® 1000 (Formulated Aflas® Elastomer) FDA and USP Compliant O-rings Specifically Compounded For Pharmaceutical, Biotechnology and Sanitary Applications

- Excellent Steam and Caustic Resistance up to 400° F (204° 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 process. 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 O Rings where both USP and FDA compliance are required.** Sanifluor® 1000 meets the extractive requirements of FDA 21CFR177.2600 sections (e) and (f). It also complies with 3-A Sanitary Standard for multiple-use rubber materials. Additionally, Sanifluor 1000 has been tested per the United States Pharmacopeia (USP) testing protocols <87> and <88> and is compliant with the requirements of the USP Class VI Polymer.

Sanifluor® 1000 is available in standard AS 568 O Ring Sizes. A metal detection Sanifluor® compound is also available.

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, °F		23° to 450°F
Service Temperature Range, °C		-5°C to 230°C
Compression Set @ 25% Deflection 70Hours @ 392° F/200°C, in Air % of original deflection	D395 Method B	32

All tests conducted on AS 568 (-214) O-rings

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.

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



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

How to order Sanifluor® 1000 O-Rings

9 XXX-FEP1000

1 2 3

Field #1 Series Designator “9” for AS-568A Standard O-Rings

Field #2 AS-568A Dash Number

Field #3 Compound Designator for Sanifluor®1000

For O-Ring sizes that are not to the AS-568A standard,
 contact Process Technologies, Inc.