

Sanitary Gaskets and O-Rings

Standard Materials



BUNA-N

Material Designator U
Temperature Range
-30° F to 200° F

BUNA-N should be considered for use with oils and animal fats. This is a food grade and 3A approved that has good compression set characteristics. BUNA-N does have a limited temperature range which precludes its use in many applications. This material does not meet USP Class VI. Available in many colors.

EPDM

Material Designator E
Temperature Range
-30° F to 300° F

EPDM (Ethylene Propylene Diene Monomer) This material is USP Class VI, FDA and 3A compliant. EPDM has very good water and steam resistance. Because of its polymer structure, this material does not offer strong resistance to oil, animal fat and most acids. Available in many colors.

Viton®/FKM

Material Designator SFY
Temperature Range
-20° F to 400° F

FKM is USP Class VI, FDA and 3A compliant. This material provides high acid and temperature resistance. It does not have strong Base resistance and performs very poorly when used with Ketones. FKM is not recommended for continuous use in SIP. Available in many colors.

Teflon®/PTFE

Material Designator G
Temperature Range
-100° F to 500° F

A very versatile material with broad chemical and temperature resistance and virtually no extractables. PTFE is a plastic and is subject to creep and cold flow. It is not recommended where large temperature variations occur or where component.

Silicone-Platinum Cured

Material Designator RXC
Temperature Range
-80° F to 450° F

Platinum cured silicone is USP Class VI, FDA and 3A compliant. This material has a high purity standard and is known for its non-leaching characteristics. It also is resistant to many chemicals and combinations of chemicals and has excellent low temperature flexibility.

Silicone

Material Designator X
Temperature Range
-58° F to 450° F

Peroxide cured silicone is USP Class VI, FDA and 3A compliant. This material is very pure and has low extractables. It performs well over a wide temperature range. Available in many colors.

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 400°F (204°C)	3	4	4	4	1	3	3	3

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

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 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"	1 1/2"	2"	2 1/2"	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