



SANITARY SEAL DIVISION of PTI, Inc.

Standard Sanitary Gasket Materials

BUNA-N SSD 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 colors: Black, White, Red, Blue, Green, Yellow.

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 colors: Black, White, Red.

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

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-Clear Material Designator FXC Temperature Range -80°F to 450°F Platinum Cured

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-White Material Designator FXW Temperature Range -58°F to 450°F Peroxide Cured.

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.



Compatibility Guide for Common Chemicals Used in CIP Processes

	EPDM	BUNA-N	Silicone	FKM	Sanifluor®	Viton® X	PTFE	Tyflur
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"	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
Tyflur™	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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