SANITARY SEAL DIVISION of PTI, Inc.

Metal Detectable Sanitary Gasket Materials

- **Fabricated from Metal Powder Impregnated Compounds**
- **Readily Detect Seal Fragments with an In-Line Metal Detector**
- **Instantly Identify and Reject Contaminated Product**

BUNA-N/Metal Material Designator UZ Temperature Range -30ºF to 200ºF

BUNA-N/Metal should be considered for use with oils and animal fats. BUNA-N/Metal should be considered for use with oils and animal fats. This material is FDA compliant and has good compression set characteristics. BUNA-N/ Metal does have a limited temperature range which precludes its use in many applications.

EPDM/Metal Material Designator EZ Temperature Range -30ºF to 300ºF

EPDM/Metal (Ethylene Propylene Diene Monomer) This material is FDA compliant. EPDM/Metal 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.

FKM/Metal Material Designator SFYZ Temperature Range -20ºF to 400ºF

FKM/Metal is FDA 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/Metal is not recommended for continuous use in SIP procedures.

PTFE/Metal Material Designator TYS Temperature Range -100ºF to 500ºF

PTFE/Metal is 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/Metal Material Designator XZ Temperature Range -58ºF to 450ºF Peroxide Cured.

Silicone/Metal is FDA compliant. This material is very pure and has low extractables. It performs well over a wide temperature range.

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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