



**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 -30°F to 200°F**

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.

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### **EPDM/Metal    Material Designator    EZ    Temperature Range -30°F to 300°F**

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.

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### **FKM/Metal    Material Designator    SFYZ    Temperature Range -20°F to 400°F**

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.

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### **PTFE/Metal    Material Designator    TYS    Temperature Range -100°F to 500°F**

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

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### **Silicone/Metal    Material Designator    XZ    Temperature Range -58°F to 450°F    Peroxide Cured.**

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

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**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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