

# Sanitary Seal Division

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## Metal Detectable/ X-Ray Detectable Sanitary Gaskets and O-rings

- Fabricated from Metal Powder Impregnated Compounds
- Readily Detect Seal Fragments with an In-Line Metal Detector
- Instantly Identify and Reject Contaminated Product
- Available in Six FDA Compliant Materials

Metal detectable / X-Ray Detectable sanitary gaskets provide a simple yet cost effective method to detect any part of the gasket that has sheared off and made its way into the product. They are used in the production processes of the food, beverage, pharmaceutical and biotechnology industries to help insure product safety and integrity. The early detection of contaminants that have entered the product greatly reduces product waste and recalls.

### **SANIFLUOR®1000/MD • Material Designator FEPZ • Temperature Range 23°F to 400°F**

Sanifluor®1000 is a unique rubber compound that has excellent caustic, chemical, heat and steam resistance. Sanifluor gaskets provide superior performance in hot water, steam and virtually all caustics making them ideal for SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications. Sanifluor provides long life and excellent performance where EPDM, FKM and silicone products fail. The incorporation of stainless steel powder eliminates rust and corrosion problems. Sanifluor/MD is an FDA compliant material.

### **TY-STEEL • Material Designator TYS • Temperature Range -100°F to 500°F**

Ty-Steel is a blend of modified PTFE and stainless steel polymer that resists creep and coldflow in steam and delta T applications. The Ty-Steel Material offers a non-stick and inert contact surface that withstands the most challenging SIP required in biotech and pharmaceutical processing. Clamp gaskets made from Ty-Steel provide a much higher level of performance when compared to conventional PTFE products used in pharmaceutical and hygienic applications. They also perform better in applications with frequent thermal cycling or vibration. Ty-Steel gaskets prevent intrusion into pipe fittings and do not create issues related to flow re-restrictions or cross contamination. Ty-Steel is FDA and USP Class VI (toxicity) compliant.

### **BUNA-N/MD • Material Designator UZ • Temperature Range -30°F to 200°F**

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/MD • 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.

### **FKM/MD • 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.

### **Silicone/MD • Material Designator XZ • Temperature Range -58°F to 450°F**

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