

Sanitary Gaskets

Types

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Materials

- Nitrile rubber
- Silicone (peroxide cured)
- EPDM
- FKM
- PTFE

Approvals

- U.S. Pharmacopoeia Class VI Cytotoxicity Criteria
- Title 21 CFR 177.2600 & .1550
- USDA and 3A Sanitary Standards



All elastomeric gaskets require periodic replacement. Gasket life is influenced by the gasket material, product application, temperature, cleaning procedures, etc. After monitoring gasket conditions in a process system, a schedule should be developed for replacement of gaskets.

Color Coding - Identification of Gasket Materials

Elastomer	Part # Identifier	Color Code	Temperature	
			Fahrenheit	Celsius
Nitrile rubber	U	1 red dot	-30°F to 200°F	-34°C to 93°C
White nitrile rubber	UW	1 red dot	-30°F to 200°F	-34°C to 93°C
EPDM peroxide cured	E	3 green dots	-30°F to 300°F	-34°C to 149°C
FKM	SFY	1 white dot and 1 yellow dot	-30°F to 400°F	-34°C to 204°C
Silicone peroxide cured (white)	XW	1 pink dot	-40°F to 450°F	-40°C to 232°C
Silicone platinum cured (clear)	XCPL	none	-40°F to 450°F	-40°C to 232°C
PTFE	G	none	-100°F to 500°F	-73°C to 260°C
Metal detectable PTFE	GZ	none	-320°F to 550°F	-195°C to 288°C
Metal detectable nitrile rubber	UZ	2 blue dots and 1 red dot	-30°F to 200°F	-34°C to 93°C
Metal detectable EPDM	EZ	2 blue dots and 3 green dots	-30°F to 300°F	-34°C to 149°C
Metal detectable FKM	SFYZ	2 blue dots and 1 white dot and 1 yellow dot	-30°F to 400°F	-34°C to 204°C
Metal detectable Silicone	XZ	2 blue dots and 1 pink dot	-40°F to 450°F	-40°C to 232°C

Packaging and Storing Information

The shelf life of rubber gaskets is the maximum period from cure date to the date the product is installed. During the shelf life time, the rubber product is expected to retain its characteristics under the following conditions:

- Stored in original packaging in a clean, dry warehouse
- Not exposed to direct sunlight
- Stored no closer than 6 feet from electric motors
- Temperature between 65°F to 85°F (18°C to 29°C)

A guideline for shelf life of rubber gaskets manufactured from the following components should have the following shelf life not to exceed:

• Nitrile rubber	10 years
• EPDM.....	10 years
• FKM	10 years
• Silicone.....	5 years
• PTFE	20 years
• Nitrile rubber, EPDM, and Silicone Metal Detectable Gaskets....	10 years