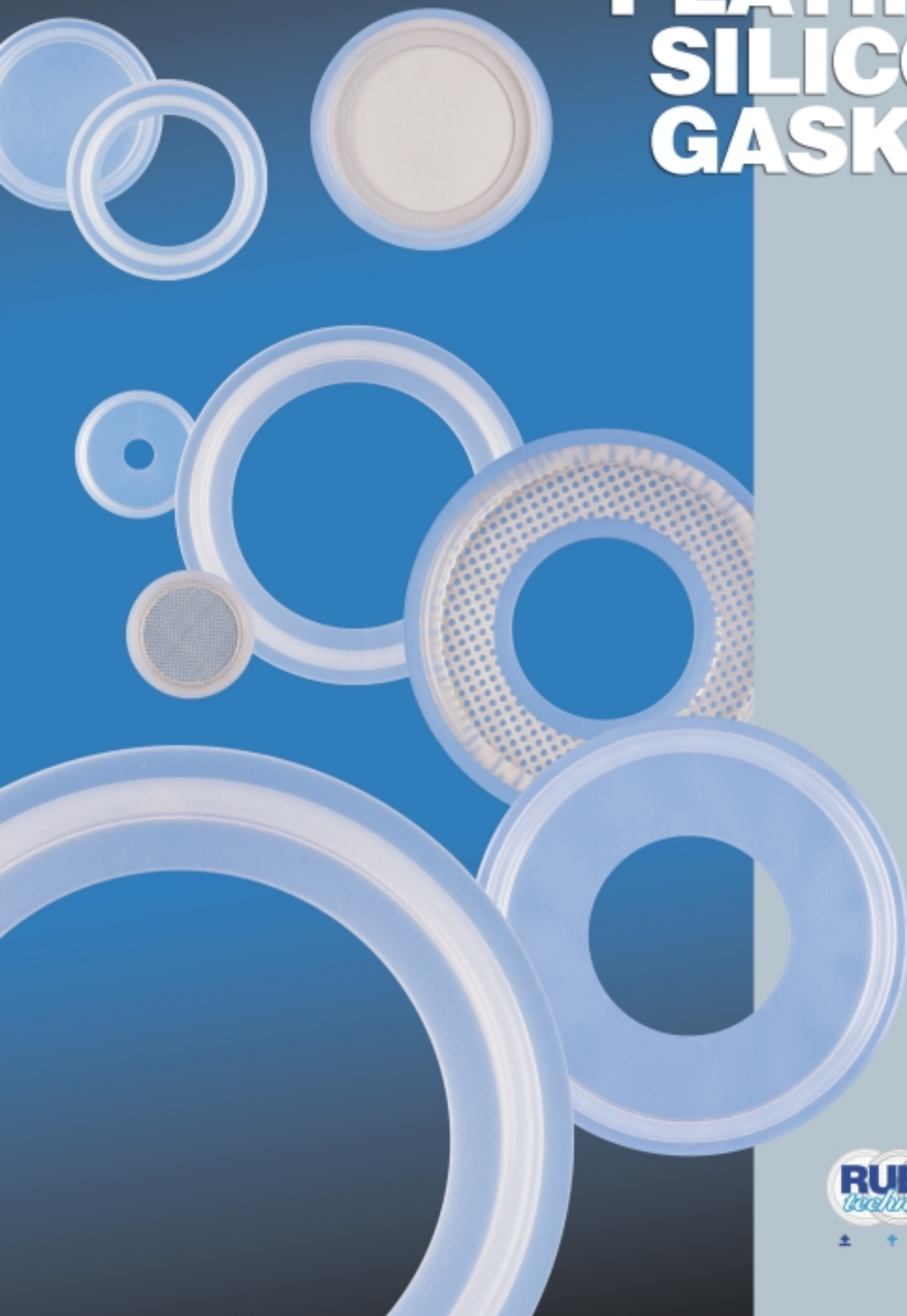


Rubber Fab's High Purity

# PLATINUM SILICONE GASKETS



## RUBBER FAB PURITY: The Complete Platinum Cured Silicone Program

**High purity platinum cured silicone gaskets are the ideal choice** for use in production facilities of fine pharmaceutical, biotechnology, high-purity water, injectables, food and beverage products. Rubber Fab's platinum cured silicone gaskets **withstands temperature extremes, radiation, corona, ozone exposure\*, moisture and steam.** Due to its smooth finish, platinum cured silicone **resists product adhesion.** These odorless, tasteless, non-toxic gaskets **maintain product integrity** and can be autoclaved, irradiated and gas sterilized. And because there is **no Benzoic Acid residue**, Rubber Fab's platinum cured silicone gaskets provide you with the ultimate, high pure, contact surface.

### The Choice is "Clear"

- Eliminates particulates
- Non-pyrogenic
- No pigmentation
- No plasticizers
- No Benzoic Acid
- Non-toxic
- High/low temperature range:  
-100°F to 450°F
- S.I.P. up to 30 psi @123°C
- No reversion
- Smooth Bore
- Non leaching
- Odorless
- Tasteless
- Superior tear resistance

### Meets High Pharmaceutical Standards

- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- CFR Title 21 Section 177.2600
- Traceability: Lot and Batch
- Certification: Lot and Batch
- ASME-BPE Standards
- USDA Standards
- 3-A Sanitary Standards
- Current Good Manufacturing Practices (CGMP)

\* Check with Rubber Fab for specifics.

### The Platinum Cured Silicone Gasket

When considering silicone gaskets, **platinum cured** is the most favorable. The method curing has an affect on the amount and type of extractables silicone will emit. Platinum curing minimizes these reactions with the respective process fluids. All gaskets are **post cured** and will **not cause cell mutation or growth retardation, maintains and upholds ultra-pure water and CGMP process fluid standards. WHAT YOU PUT IN, YOU GET OUT.**

### Platinum Equals Absolute Purity

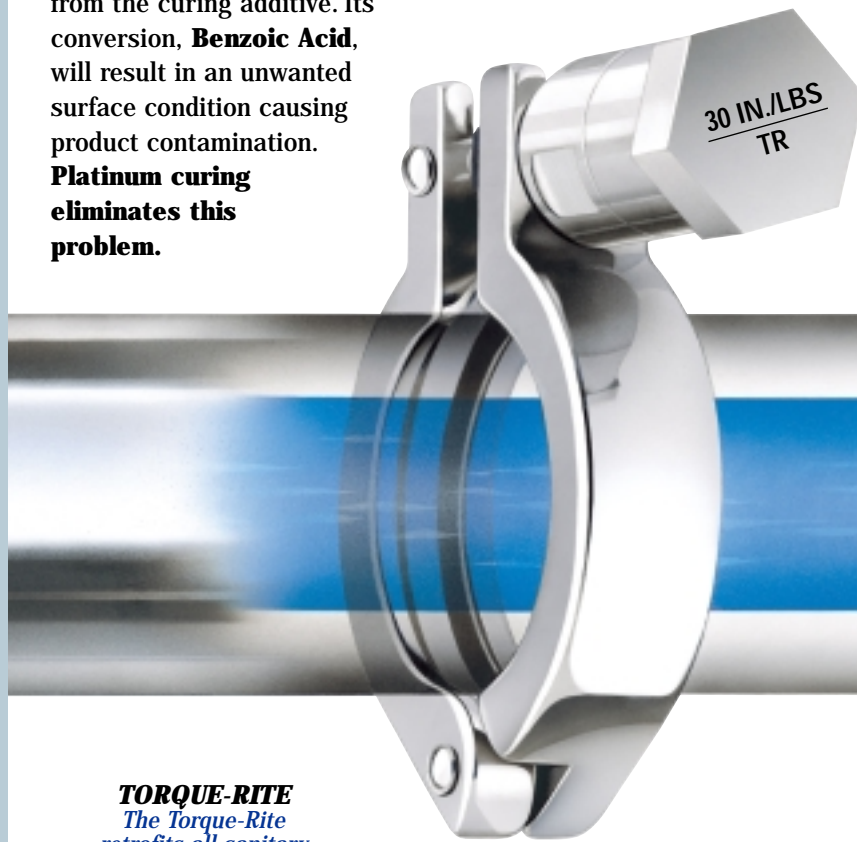
When compared with Peroxide Cured Silicone Gaskets, **Platinum Cured is clearly the superior choice.** Peroxide curing will always have residuals from the curing additive. Its conversion, **Benzoic Acid**, will result in an unwanted surface condition causing product contamination. **Platinum curing eliminates this problem.**

### Superior Tear Resistance

Rubber Fab manufactures all Platinum Silicone Gaskets from **milled gum silicone.** When compared to **LIM (liquid injection molding) silicone**, milled gum silicone gaskets **have superior resistance to tearing and deformation.**

### Complete Choice in Platinum Cured Silicone Gaskets and Products

Rubber Fab Technologies Group's Platinum Cured Silicone Gaskets are **available in all gasket designs.** They are interchangeable with standard sanitary clamp gaskets and work with Rubber Fab's Torque-Rite (see below). Additional product lines are also available, including **Smart Gaskets, platinum cured silicone sheets, O-Rings and platinum cured silicone tubing.**

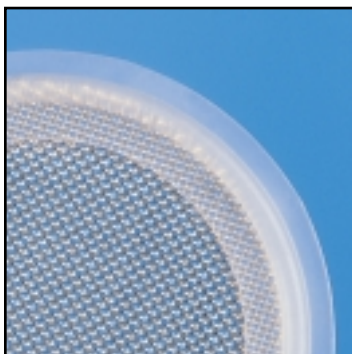


**TORQUE-RITE**  
*The Torque-Rite retrofits all sanitary clamps, mini through 6" and is available in 30 or 50 inch/pound models. No torque wrench or special training required.*

**MODEL TR-30 is the recommended model for Platinum Cured Silicone Gaskets.**

## Fluid Conditioning Gaskets

Rubber Fab's line of fluid conditioning gaskets provide **particulate elimination** to protect **fill and finish** sterile products. A full range of stainless steel mesh and filter cloth is available



(20 micron through mesh). **Metallic screens** are in stock for all particulate removal needs in your injectable filled product, chromatography, columns, filtration, downstream or upstream particulate removal. **Perforated, screen and orifice fluid conditioning gaskets, removable discs and holders** are also available.

For more information, see:  
*Fluid Conditioning Technology Screen Gaskets*  
#RF-110

## Self-Draining Orifice Plates

Offered in an **eccentrically self draining configuration**, the Rubber Fab Orifice Plate prevents dead legs, volume hold up and **maintains flow while assuring drainage** thereby eliminating the potential for soil retention. Manufactured from 316 stainless steel, 1/2" through 4", in both **concentric and eccentric designs**, Rubber

Fab's Orifice Plates adjust flow rates, balance backflow and equalize pressure during SIP procedures while **maintaining sanitary conditions**.



**Tabbed Orifice Plates** are also available in 1", 1-1/2", 2" and 3" designs. All orifice plates can be electropolish finished.

For more information, see:  
*Think Eccentrically Orifice Plates*  
#RF-130

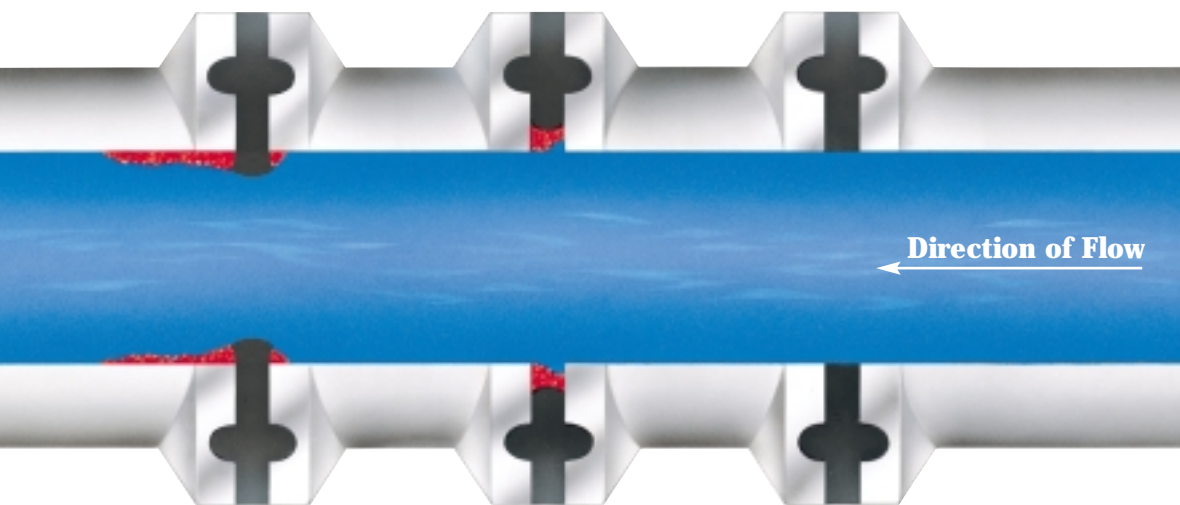
## The Perfect Surface Gasket System

The problems associated with over- or under-tightening a gasket are eliminated by the perfect union of **Torque-Rite and the Platinum Cured Perfect Surface Gasket**. The self-limiting Torque-Rite allows you to **control compression and expansion while maintaining constant inch/pounds force** assuring a Perfect Surface I.D. when used with a Platinum Cured Perfect Surface Gasket. An over-tightened gasket extruding into the pipe **prevents draining and allows deposits to build up behind the gasket**. An under-tightened gasket may allow leakage and forms a concave surface affecting free drainage and cleaning (illustrated below). **By maintaining a constant force, gasket I.D. is maintained lowering bacteria count, eliminating product or CIP retention and enhancing product integrity.**

## Compression Control is Easy!

When tightened, the self-limiting internal mechanism in Rubber Fab's Torque-Rite will make an audible **"click"** signaling the user they have reached proper inch/pounds force. If further tightening is attempted, there will be more **"clicks"** but no additional application of force on the gasket (if emergency conditions arise, the Torque-Rite has a built-in manual **override feature**).

For more information, see:  
*The Perfect Surface Gasket System Torque-Rite*  
#RF-150



### **OVER TIGHTENED GASKET**

An over-tightened gasket extrudes into the pipe, prevents draining, and allows deposits to build up behind the gasket.

### **UNDER TIGHTENED GASKET**

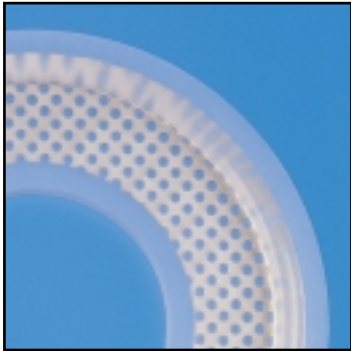
May allow leakage. Can form concave surfaces at the product side of the gasket affecting free drainage and cleaning.

### **PERFECT SURFACE GASKET**

*Torque-Rite and a Platinum Cured Perfect Surface Gasket eliminates the concerns associated with over- and under-tightening a sanitary gasket. Assures that gasket I.D. matches pipe I.D.*

## HPV: The NEW High Pressure Vacuum Gasket

Rubber Fab Technologies Group introduces the HPV (High Pressure Vacuum) gasket, the gasket that **maintains dimensional integrity under high pressure and full vacuum conditions. This gasket will only compress. The HPV gasket will not stretch, implode or extrude into the I.D. of the pipe.** Available in 1/2", 3/4", 1", 1-1/2" and 2".



## Criti Clean Packs: Convenient and Economic

Rubber Fab will work with you to develop and supply **special gasket packages** to provide you with exactly the assortment of gaskets needed for equipment setup or maintenance changeouts. Rubber Fab gaskets are deionized water cleaned and dried utilizing filtered nitrogen in a Class 100 clean room. Our **ready-to-use Criti Clean gasket kit** is packaged in a see-through "Vis-U-All II" pack equipped with **temperature indicator dots** that indicate completed sterilization when steam or gas sterilized. The Criti Clean Pack is available in 1, 6, 12, 24 or custom special gasket packages.

## Platinum Cured Silicone is Your "Smart" Choice as Well

**Its value is proven when validating for sterility** in a high-purity pharmaceutical system. Your standard sanitary flange utilizing the Smart Gasket™ is used to **obtain the critical thermal mapping information you need** during the validation process. Smart Gasket™ easily installs between two sanitary standard flanges using the Rubber Fab sanitary Smart Clamp to secure the flanges. Our clamp **provides up to four internal ports** for accepting the Smart Gasket™ thermocouple sampler or accessories.

Choose between Rubber Fab's Thermocouple Gasket or select the Smart Gasket™ Spore Trap to **securely retain spore challenge test strips. 1 additional port is available** when utilizing the spore strip Smart Gasket (can be used with or without a thermocouple port). **Meter fluids in your process system** utilizing a peristaltic pump (feeds in or out), syringe, sampler, valve, with optional luer lock.



### Available Configurations



For more information, see:  
*In Line Systems Validation*  
**Smart Gasket**

#RF-100

## Add some color...

Platinum Cured Silicone Gaskets are also available in different colors. **Colorized gaskets** can provide a unique way of **identifying a dedicated product line** while establishing the opportunity for a **dating mechanism and change out discipline**.

Stocked colors available include **translucent, red, and opaque white**. Consult factory for additional colors.

Note: Non stock custom colors are available and subject to minimum run quantities.

### Color coding uses include:

- Identify dedicated product lines
- Identify specific process lines
- Create color coded change out program



## Platinum Silicone Properties

### Formulation

CPO-296  
70 Durometer Platinum Cure  
Silicone Elastomer

### Specific Gravity

1.200 Lower Limit  
1.240 Upper Limit

### Durometer Shore A

65.0 Lower Limit  
75.0 Upper Limit

### Tensile (PSI)

Min. 700

### Elongation (5)

Min. 800

### Modulus 100% (PSI)

0.0 Lower Limit  
2000 Upper Limit

### Tear B (PPI)

Min. 200

### Compression Set

87% (Not post-cured)  
50% (Post-cured)



P.O. Box 626 • Andover, NJ 07821  
Tel: (973)579-2959 • Fax: (973)579-7275

### SANITARY CLAMP GASKET

PARTNO: 42 RXPX 050  
TYPE: PLATINUM CURED  
MATERIAL: SILICONE  
SIZE: 3/4"  
LOT#: HBA497B  
REORDER: 42 RXPX 050  
QUANTITY: 50

High Purity Pharmaceutical Gaskets  
Passes - USP CLASS VI  
Passes - CYTOTOXICITY TESTING  
Meets - FDA 21 CFR, 177.2600  
Meets - 3-A STANDARDS  
---- MADE IN USA ----

## Laser Engraved Gaskets

- Laser Engraved Gaskets, Screens and Orifice Plates insure permanent batch and/or lot traceability.
- Engraved compound information can be used to replace color dot compound code.
- Laser engraving available on the following gaskets:
  - Buna
  - EPDM
  - Silicone
  - FKM
  - PTFE
  - Tuf-Steel
  - Tuf-Flex
- Laser engraving available on gaskets from 1/2" through 4.0" sizes.
- Also available with all standard colors.
  - Buna, EPDM and FKM in black or white.
  - Silicone in clear, white or red.
  - PTFE in white or blue.
  - Tuf-Steel and Tuf-Flex in their standard colors.
- Engraving will remain readable throughout the gasket's service life.
- Procedure usually adds one day to ship time, depending on quantity.
- Compound type as well as special application markings can be engraved on gaskets at customer's request. Refer to factory for evaluation and pricing.



## For Additional Information...

For detailed information on any Rubber Fab gasket or product line and ordering information, contact RUBBER FAB Technologies Group directly at (973) 579-2959 for your LOCAL DISTRIBUTOR. For literature, email your requests to [sales@rubberfab.com](mailto:sales@rubberfab.com) or download a specific brochure at [www.rubberfab.com](http://www.rubberfab.com).



*In Line System Validation*  
**Smart Gasket**  
#RF-100



*Fluid Conditioning Technology*  
**Screen Gaskets**  
#RF-110



*High Purity*  
**Platinum Silicone Gasket**  
#RF-170



*Think Eccentrically*  
**Orifice Plates**  
#RF-130



*Sanitary Gasket*  
**Material Guidelines**  
#RF-140



*The Perfect Surface Gasket System*  
**Torque-Rite**  
#RF-150



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