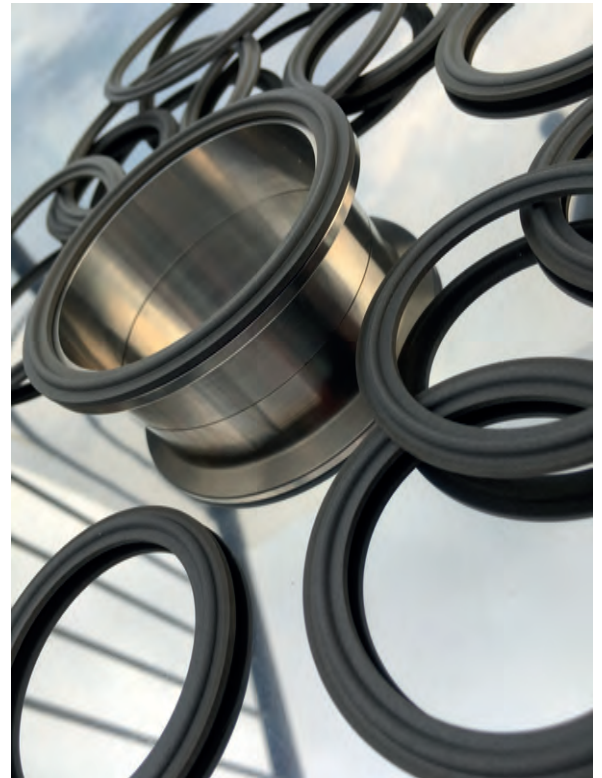


# Flon-Chem<sup>®</sup>- 1045-SILVER

is special blend of 50/50, PTFE and 316 passivated stainless steel has been tested and proven to add stability and longevity to your process piping systems. These new components are especially useful in S.I.P. systems preventing downtime.



## TYPICAL PROPERTIES:

FLON-CHEM-1045-SILVER easily outperforms standard gaskets made with PTFE under even the most demanding pharmaceutical applications. In fact, FLON-CHEM-1045-SILVER lasts up to five times longer in most applications.

## TYPICAL APPLICATION:

The unparalleled strength of FLON-CHEM-1045-SILVER eliminates maintenance needs and helps prevent system downtime by eliminating cold flow creep. This makes FLON-CHEM-1045-SILVER ideal for sanitary steam pipe connections in both extreme cold and hot conditions. FLON-CHEM-1045-SILVER gaskets are available in standard and not standard sizes.

## COMPLIANCE/APPROVALS:

**CE Regulations:** 1935/2004/CE  
1895/2005/CE 10/2011/UE  
2023/2006/UE

**Italian Legislation:** Decreto ministeriale  
21/03/1973 DPR 777/82

**USA Directives:** FDA, Food and Drug Administration, department of Health and Human Services, Code of Federal Regulations 21 CFR Ch.1; USA regulations sections 177.1550 (a) (1) and (b) Perfluorocarbon Resins;

PROPERTIES	TEST METHOD	UNITS	VALUE
Colour			Gray
Density	ASTM D792	gr/cm3	3,35 - 3,45
Tensile Strength	ASTM D4745	MPa	> 20
Elongation	ASTM D4745	%	> 230
Hardness	ASTM D2240	Shore D	> 60
Working Temperatures		°C	- 200 / +260
Peak Temperature		°C	+315
Coefficient of dynamic friction	ASTM D1894		0,25 - 0,35
Permanent deformation 140 Kg/cm2 for 24 h at 23°C	ASTM D621	%	< 6
Deformation under load after 24 h . Relaxation at 23°C	ASTM D621	%	< 3
Resistance to compression deformation with 1%	ASTM D695	N/mm2	> 13
Waer factor K	ASTM 3702	PV=0,35 [ MPa *m/s]	30 - 40
Thermal conductivity	ASTM C177	W/m*K	0,59
Coefficient of linear thermal expansion from 25 to 100°C	ASTM D696	10-5/ °C	10-12

Note: These are typical properties and not used for specification purpose



## PRODUCT PROPERTIES:

- Superior creep resistance
- Minimal thermal expansion
- Excellent chemical resistance
- No pigmentation
- Passivated to eliminate rouging
- No gasket extrusion into the sanitary tube I.D.
- No obstruction of flow
- Non-stick surfaces
- Excellent expansion and contraction stability
- Metal detectable

All information in this document is based on years of experience in manufacture and use of the discussed products. Since sealing performance in the joint is subject to multiple factors such as mounting method, system parameters, and sealed medium, technical parameters specified herein are of informative nature only and cannot be used as grounds for any claims any special uses of products are subject to consulting with the manufacturer.