



# Next Generation of RTJ Sealing

## Wolar's K-Series Gaskets

KammProfile gaskets have exploded into downstream markets as the premier sealing choice for difficult applications. Since its introduction into the industry, it has, time and again, proven itself in demanding applications with fluctuating or cycling process conditions. For more than 30 years, Wolar's ring joint gaskets have been the go-to product for the highest pressure and higher temperature applications in both the up and downstream markets. Now, we are bringing KammProfile's success to the RTJ world.

### Composition

The metal core is our octagonal RTJ configured to ASME & API specifications. The four designed sealing surfaces are serrated with concentric grooves and faced with APX-2® graphite, suitable to meet the rigors of your application.

### Characteristics

- The K-series RTJ displays all the characteristics of flat Kamm gaskets and more. Our third-party testing shows the K-series gaskets seal at far lower gasket stresses than traditional octagonal RTJs, and significantly out-perform the traditional industry specifications.
- Using proper torquing techniques, the K-series RTJ achieves a leak-free seal at much lower gasket stresses compared to a standard octagonal RTJ, and even lower required bolt loads.
- Facing the serrated surfaces with a natural lubricant, such as graphite, helps prevent wear damage to flange sealing surfaces by reducing the friction from metal-to-metal sealing. The graphite facings, along with proper bolt lubrication, also allow for a more consistent load scatter than unlubricated octagonal RTJs.
- The countless alloy options and the use of APX-2® graphite allow for the broadest range chemical resistance sealing available.
- Fire safe and blowout safe.



### Materials

Core: All API & ASME octagonal ring sizes using any one of our 50+ choices of metals.

Most common core metals: Stainless Steel, Carbon Steel, Aluminum, Monel, Nickel, Inconel, Titanium, Duplex 2205.

Hardness will depend on core material desired.

Facing: APX-2 graphite.



## Temperature

APX-2 graphite: SIGRAFLEX flexible graphite foil is manufactured from high-quality expanded natural graphite free of adhesives and binders. Inhibitors are added to enhance the performance. SIGRAFLEX APX2® foil offers maximum protection against oxidation for greater reliability and longer service life. -400 f to 932 f.

## Pressure

R-series octagonal RTJs are designed for services up to 5,000 psi.

## Applications

Heat exchangers, worn or less-than-perfect flanges, pressure vessels.

## M- Value / Y-Value

Carbon Steel – 5.5	18,000
Monel – 6.0	21,800
Stainless Steel – 6.5	26,000

## Industries

Petroleum Refining, Chemical, Oil Exploration, Pipeline Systems.

## Minimum required Gasket Stress in Assembly $Q_{smin (L)}$ [PSi]

