



## Metalflex Styles - 911, 911M, 911T, 914

### DESCRIPTION

**Teadit Metalflex® 911** Spiral-wound gaskets are made of a preformed metallic strip and a soft filler material (PTFE or graphite), wound together under pressure. The metal strip holds the filler, resulting in excellent mechanical resistance, resilience and recovery.

### CONSTRUCTION

This spiral wound is constructed with a metallic winding and a filler element. The winding is manufactured from metal in a complicated form of a spiral, in assembly with a filler material. The metallic Winding, of special profile, provides excellent resistance, compensating the changes in operational conditions such as: variations of pressure and temperature, vibrations, thermal shocks, etc. The filler materials fill the irregularities of the flanges.

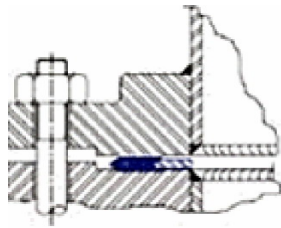
### APPLICATION / SERVICE

For applications with high temperature variations (thermal cycling), and/or pressure variations, and/or flange rotation problems etc., gaskets with adequate residual stress (stress retention), flexibility and recovery are needed. TEADIT spiral-wound gaskets have been designed to meet these demanding requirements. The flanges should be designed to provide compression limitation to the gasket's optimum compressed thickness (Please contact Teadit Technical Department for details).

MATERIAL PROPERTIES	
Filler Material	Max. Temperature
Mica Graphite	232°C (450 °F)
Flexible Graphite	450°C (842 °F)
PTFE	260°C (500 °F)

General Note: Pressure Construction may be specified from 150 to 2500 class.

## Teadit Metalflex® 911-M



### **DESCRIPTION**

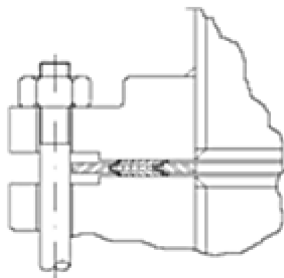
Developed basically for the same application as the Metalflex® 911, but specifically for elevated vacuum, pressures and temperatures, this Metalflex® 911-M is a modified 911 with an internal ring that fills the space between the flanges, avoiding turbulence in the flow of the fluid or as a protection against corrosion or erosion. It is also used as a compression limit.

Second, gaskets with PTFE and flexible graphite filler have a tendency to inward buckle thus the use of an inner ring is recommended.

### **CONSTRUCTION, APPLICATION/SERVICE, MATERIAL PROPERTIES**

See **Teadit Metalflex®911**

## Teadit Metalflex® 911-T



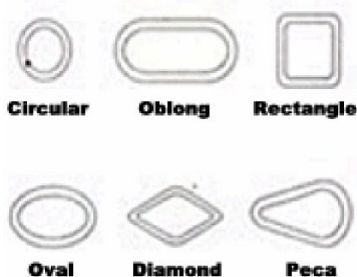
### **DESCRIPTION**

Double Jacketed bars are welded into the winding of a Metalflex® 911 developed for shell and tube heat exchangers with several passes. The bars are manufactured in the same material and are plasma or spot welded to the winding. When used in a properly designed groove, Metalflex® 911-T generally provide good sealability. In many other cases the addition of solid metal inner and outer rings (913MT) are recommended.

### **CONSTRUCTION, APPLICATION/SERVICE, MATERIAL PROPERTIES**

See **Teadit Metalflex®911**

## Teadit Metalflex® 914



## **DESCRIPTION**

Style Metalflex® 914 spiral wound gaskets are windings in non-circular forms like oval, rectangular and square with rounded corners, diamond, oblong or pear shaped.

## **CONSTRUCTION, MATERIAL PROPERTIES**

See **Teadit Metalflex® 911**

## **APPLICATION/SERVICE**

**Teadit Metalflex® 914** spiral wound gaskets are used in boiler handholes and manholes, equipment, engine head-gaskets and exhaust systems.

Note: The addition of solid metal inner rings is recommended for some applications to avoid crushing or pinching on the gasket ID.

Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.

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