



# SENTINEL

**Your Guard Against Corrosion**

by **Westermann**  
Bolt & Gasket

Sentinel Brand Flange Insulation products are designed to control losses due to corrosion and to accommodate a wide variety of media applications. They have been engineered to increase cathodic protection by confining and absorbing stray electric currents that are responsible for causing electrolytic corrosion in piping.

Sentinel Brand Flange Insulation products are used with piping in the oil, gas, water, wastewater, refinery and chemical industries.

## Specifications - Gaskets, Sleeves, Washers

Material	Dielectric Strength volts / mil	Water Absorption (%)	Max. Temperature (°F)
Polyethylene	450	.01	105
Phenolic	400-500	1.1	225
Mylar	4,000	.8	300
Minlon	1,200	.22	250
Nomex	400	-	450
NonAsbestos	285	-	400
G10 Defender	530	.09	285

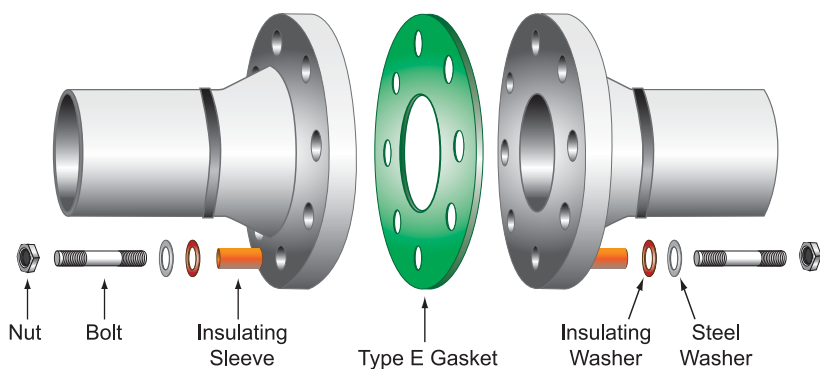


## Set Types:

### Sleeve and Washer Sets

Packaged for owners who choose to use their own insulating gaskets, these sets contain insulating sleeves, insulating washers and steel backup washers.

- Double Insulation Sets: These sets effectively cover both sides of the flange.
- Single Insulation Sets: These sets cover one side of the flange.



## Gasket Styles:



### Type E

Type E gaskets extend to the outside diameter of the flange to include bolt holes. They offer maximum protection against foreign material shorting out the flange. Type E gaskets are available in any material. Standard gasket thickness is 1/8".



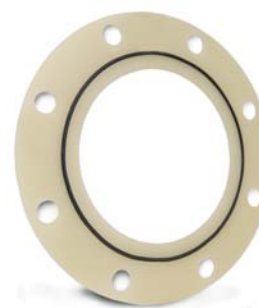
### Type F

Type F gaskets are made to fit within the bolt hole circle of the flange. Type F gaskets are available in any material. Standard gasket thickness is 1/8".



## Minlon Sleeves

Minlon Sleeves are one piece sleeves made from an acetal resin. They take the place of the sleeve and washer combination but still require a backup steel washer for installation. Minlon sleeves come in one length and can be trimmed in the field to accommodate all installations.



## G10 Defender

The G10 Defender is considered to be one of the most effective gaskets for sealing and isolating flanges of all types. The gasket consists of two molded Vee shaped O-rings mounted in grooves on opposite sides of an isolating retainer. Requiring minimal compression to properly seal, the O-ring design intimately connects the flanges and provides a positive seal.