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SPECIFICATION: **G-100,276-7**

TITLE: **INSULATING KITS FOR FLANGES ON
STEEL GAS PIPELINES**

VOLUME: **6**

REVISIONS: (See ★)

- 1) Section 4.1 (A) - Updated distributor information.
- 2) Section 4.2 - Added that "written" approval is required for purchase of competitive products.



G-100,276-7

Gas Operations Standards

**TITLE: INSULATING KITS FOR FLANGES ON
STEEL GAS PIPELINES**

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**TITLE: INSULATING KITS FOR FLANGES ON STEEL
GAS PIPELINES**

1.0 SCOPE

This specification covers the purchase of flange insulation kits to be used for insulating joints on steel gas pipelines.

2.0 MATERIAL

2.1 Insulating central gaskets shall meet the following requirements:

- A) The gaskets shall be full face, type E, having the same outside diameter as the flange in which they will be used, and the inside diameter 1/8" smaller than the inside diameter of the flange.
- B) The gaskets shall be made from laminated phenolic with build in nitril (Buna-N) o-rings seals or equivalent. This gasket shall have the following properties:

Thickness	1/8 inch
Compression Strength	24,000 psi min
Dielectric Strength	800 v/mil min.
Water Absorption	1.6% max.
Maximum Operating Temperature	180 Degrees F

2.2 The sleeves used shall be made of multiple layers of mylar polyester film, spirally wound. They shall have the following properties:

Thickness	1/32 inches
Ultimate Tensile Strength @ 25° C	24,000 psi min
Dielectric Strength @ 25° C	220 v/mil min.
Water Absorption	1.6% max.
Maximum Operating Temperature	300 Degrees F

2.3 The insulating washers used shall be made of thermosetting phenolic and shall have the following properties:

Thickness	1/8 inch
Compressive Strength	24,000 psi min
Dielectric Strength	220 v/mil min.
Water Absorption	1.6% max.
Maximum Operating Temperature	225 Degrees F



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2.0 **MATERIAL** (Continued)

2.4 The non-insulating washers used shall be made of cadmium plated steel.

3.0 **STOCK NUMBERS**

3.1 The following size flange kits are in stock without the full face gasket.
Gaskets can be ordered separately.

<u>Size</u>	<u>Pressure</u>	<u>Stock Number</u>
2"	150#	334-2219
4"	150#	334-2201
6"	150#	334-2193
8"	150#	334-2227

4.0 **APPROVED INSULATING KITS**

★ 4.1 The following products are approved:

- A) PSI Linebacker Flange Insulation Kit
Manufacturer: PSI Company
Distributors: PCA Engineering, Inc.
Pompton Lakes, NJ
or
Stuart Steel Protection Corp.
South Bound Brook, NJ
- B) Central Plastics "Jock" Flange Insulation Kit
Manufacturer: Central Plastics
Distributor: Stuart Steel Protection Corp.
South Bound Brook, NJ

★ 4.2 Competitive products may be purchased **only** with written approval from Corrosion Control.



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5.0 PACKAGING

- 5.1 Each insulation kit shall be individually packaged with the sleeves and washers enclosed in a strong bag. This bag, together with the center gasket shall be packaged in a card board box which shall be clearly labeled as to its contents.

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