

# TGCDMAX Flange Insulation System

CPI TGCDMAX flange insulating kit is comprised of an insulating gasket, insulating sleeves, insulating washers and metal backing washers. The insulating gasket is constructed from serrated metal core, faced with CPI-Max, a high temperature sealing material.



## Description:

Correct gasket location is ensured using a CPI-Max ring, located around the periphery of the serrated metal core. TGCDMAX high temperature flange insulation sets are specifically designed for sealing and maintain electrical isolation across a wide range of seating stresses and flange classes in elevated temperature service. The CPI-Max sealing material pushes the performance of the TGCDMAX insulation kit beyond the temperature capability of traditional insulation sets based on vermiculite or glass/epoxy sealing technology. TGCDMAX had been approved by API 6FB fourth edition.

## Materials:

**Standard gasket core material:** Stainless steel 316L, others can be supplied on requested

**Layer material:** CPI-Max

**Located ring material:** CPI-Max

**Sleeve material:** CPI-Max

**Insulation Washer:** CPI-Max

**Steel Washers:** ZPS or HCS, please noted HCS can be used as insulation washer to instead Cpi-MAX washers if necessary.

## Advantages:

- Operational pressure: From Full vacuum to ASME B16.5 1500lb (26.0MPa)
- Operational temperature -200°C to 550°C
- Max. Temperature 700°C
- CPI-Max is suitable for sealing across a wide range of chemicals (pH 0-14) and sweet and sour gaseous and liquid hydrocarbons.
- Standard core and washer metallurgy avre NACE (MRO175) compliant.
- Dielectric Strength (ASTM D149): 10.0 kV/mm

## Supply Specifications:

- Gasket will be 4.5mm, with 3mm metallic core and 0.75mm x 2 layer on both sides.
- Sleeve wall thickness: 0.8mm
- Washer thickness: 3mm
- Each TGCDMAX flange insulation set comprises:
  - insulating gasket: 1 per flange
  - Sleeves: 1 per bolt
  - Insulation Washers: 2 per bolt
  - Metallic Backing Washers: 2 per bolt



## Contact Us:

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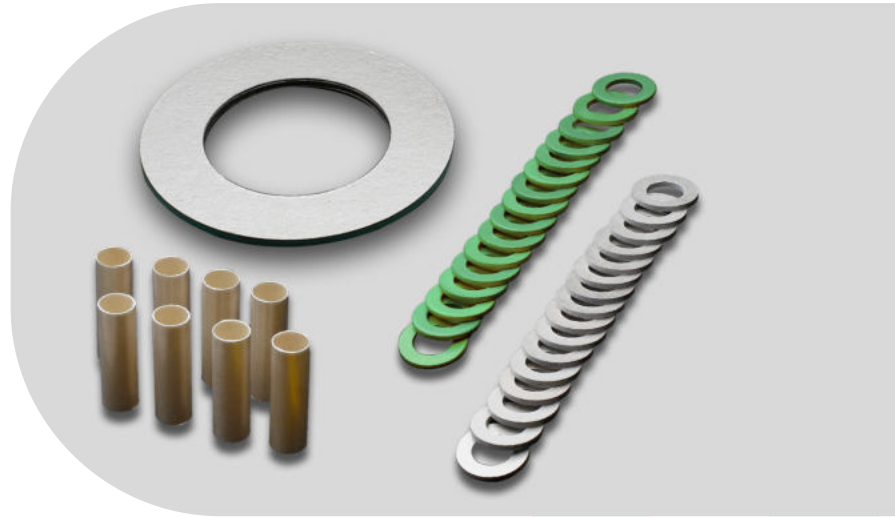


### Application:

- Fine refinery
- Hydrocarbon Processing
- Heat Exchanger
- Power Station

### Technical Data Sheet:

High temperature insulating material



NO.	PROPERTIES	UNIT	SPECIFIED VALUE
01	Color	-	Brown
02	Density	gm/cm <sup>3</sup>	2.10 to 2.25
03	Flexural Strength	N/mm <sup>2</sup>	≥ 250
04	Compressive Strength at 20°C	N/mm <sup>2</sup>	≥ 300
05	Dielectric Strength at 23°C	KV/mm	≥ 25
06	Insulation Resistance at 23°C	M/ohm	200 ~ 600
07	Weight Loss @ 700°C for 4 Hrs	%	< 1
08	Water Absorption after 24 Hrs	%	< 0.50
09	Loss on Ignition (H <sub>2</sub> O)	%	2.74
10	Resistance to Temperature Continuous Peek	°C	800 1000



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