



Innovations in Fluid Sealing



TECHNICAL DATA SHEET

INGRAF PLAIN WITH SS TANGED INSERT INMARCO TYPE SST 323

Description:

TYPE SST 323 Flexible pure Graphite Tanged Gasket Sheet is manufactured from perforated tanged SS sheet sandwich between two layers of flexible pure graphite sheet. The whole process of manufacturing flexible pure graphite tanged gasket sheet is mechanical without incorporation of any additives on bonding materials.

TYPE SST 323 the flexible pure graphite sheet is having 99% to 99.9%. These are extremely suitable for high temperature and high pressure application. These gaskets are highly resilient and as such easily adopts to irregularities of flange or surface to make perfect seal. SS tanged gaskets are suitable for metallic, glass, enamel flanges and are designed for trouble free change over which ultimately reduces maintenance cost. They are dimensionally stable under extreme pressure surge. These are also suitable for cryogenic services.

Operational Parameters:

DESCRIPTION	VALUES
pH RANGE	0-14
TEMPERATURE (°C)	Min. -200 to max. +650
PRESSURE (BAR)	500
THICKNESS (mm)	1 to 6

Advantages:

- ❖ Reinforcement of SS tanged sheet increases mechanical strength of the gasket.
- ❖ Chemical properties of flexible pure graphite remain intact.
- ❖ Resistant to almost all non-chemicals.
- ❖ Good compressibility and recovery, hence seals perfectly.
- ❖ Does not age or creep under hot or cold working conditions.

Typical Applications:

Any type of Pipe flanges, Valve bonnets & Heat exchangers.

Service Media:

Super heated and saturated steam, All non-oxidising liquids and gases, Hydrocarbon, Oxygen services, Cryogenic services, Dyes and chemicals, Fuel and lube oil etc.

Availability:

Sheet size : 1000mm x 1000mm
: 1500mm x 1500mm

Specification:

PROPERTIES	VALUES
Carbon content	99% to 99.9%
Sulphur content	Less than 500ppm
Chloride content	Less than 30ppm
Ash content	Less than 1%
Bulk Density	1.1gms/cc to 1.4gms/cc
Tolerance on density	±0.05g/cc
Thickness of sheet	1mm ~ 6mm
Thickness of Reinforcement	0.05mm ~ 0.1mm
Tolerance on thickness	±0.1mm ~ 0.25
Reinforcement	SS316/SS316L tanged
ASTM F36	
Compressibility	35-40 %
Recovery	15-18%
“m” factor (3mm thick)	2.5
“y” factor (psi)	4500
ASTM F38	
Creep relaxation	5%
Ignition loss %	
@ 850°F (454°C)	1
@ 1200°F (650°C)	8
ASTM F37, Sealability	
Fuel A, mL/hr	0.5
Nitrogen, mL/hr	2.0
DIN 3535-Gas	
Permeability	0.40
Nitrogen, cc/min	
Temperature (°C)	-200 to 3315 in reducing condition +600 in oxidizing condition +650 in steam
Pressure (BAR)	Vacuum 28Hg to 300

All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

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