



Innovations in Fluid Sealing



TECHNICAL DATA SHEET

INGRAF PLAIN SHEET INMARCO TYPE FG 320

Description:

TYPE FG 320 is manufactured from exfoliated graphite. During the initial process of exfoliation of graphite, acid treatment is done but 100% of acids are washed out by the DM water. After this, the whole process of manufacturing flexible graphite gasket sheet is mechanical, without incorporation of any additives, oils or bonding material.

TYPE FG 320 flexible pure graphite sheet is having carbon content 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. Inmarco flexible pure graphite 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)	300
THICKNESS (mm)	0.5 to 6

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, Acids (except hydrofluoric) & alkalies, 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%
Tolerance on density	±0.05g/cc
Thickness of sheet	0.5mm ~ 6mm
Tolerance on thickness	±0.1mm ~ 0.25
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.

INMARCO FZC

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