

## Sealmax Style 920Pi – Graphite with SS Plain Insert

### Applications:

- **Sealmax Style 920Pi** is a reinforced sealing material designed for severe service conditions. It is manufactured by laminating flexible graphite sheets onto a plain stainless-steel insert, commonly SS304 or SS316, to enhance mechanical strength, surface load and blow-out resistance.
- The plain stainless steel insert provides excellent dimensional stability, improves handling characteristics and increases pressure resistance during operation.
- **Style 920Pi** is particularly suitable for applications involving high and low temperatures, high pressure and aggressive or corrosive media, making it ideal for gaskets used in petrochemical plants, refineries, power plants, boilers, heat exchangers, pumps, valves, piping systems, flanges, gas and steam services



### Properties:

- **Chemical Compatibility:** Resistant to a wide range of chemicals including acids, alkalis, oils, steam, hydrocarbons and solvents (except strong oxidizing agents).
- **Enhanced Dimensional Stability:** The stainless-steel plain insert improves rigidity and prevents gasket blow-out or extrusion under high bolt loads.
- **Low Creep and Relaxation:** Maintains sealing performance over long service life.
- **Superior Pressure Handling:** Suitable for pressure upto 120 bars, making it ideal for high-load sealing application.

#### TECHNICAL SPECIFICATIONS

SR.NO.	PROPERTIES	UNIT	SPECIFIED VALUES
1.	Density	g/cm <sup>3</sup>	1.0
2.	Carbon	%	>98
3.	Ash	%	<2.0
4.	Sulphur	Ppm	<800
5.	Chlorine	Ppm	<50
6.	Fluorine	Ppm	<50
7.	Total Halogens (Cl+F+Br)	Ppm	<200
8.	Tensile Strength	Mpa	>5
9.	Compressibility	%	30 – 40
10.	Recoverability	%	>15
11.	Weight loss (670°C)	%/H	<10
12.	Thickness & Density Variation	%	±10%
13.	M Value	-	2.5
14.	Y Value	-	2000 psi

#### GENERAL SPECIFICATIONS

SR.NO.	PARAMETERS	SPECIFICATIONS	REMARKS
1.	Material	Graphite with plain metal insert	SS316 / SS304
2.	Colour	Dark Grey	-
3.	Operating Temperature	-200°C to +450°C (-319°F to +842°F)	In Non – Oxidizing atmosphere upto 550° C
4.	Pressure range	120 Bar	Depends on the installation situation
5.	Shelf Life	Unlimited under proper storage	Non-ageing material
6.	Available thickness	1.0mm to 5.0mm	-
7.	Available forms	Sheets, gaskets	Customized gaskets on request

All technical data and recommendations are given based on our experience. However, we assume no liability whatsoever. All data and values must be verified by the user, as the effectiveness of a seal can only be accurately judged by evaluating all data parameters directly on site. The stated parameters of all packing styles are approximate and may be influenced if occurring together. We suggest you to contact us in case of any special applications.



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