

Sealmax Style 920Ti – Graphite with SS Tanged Metal Insert

Applications:

- **Sealmax Style 920Ti** is a reinforced sealing material designed for extreme conditions. It is made by laminating flexible graphite sheets onto a 0.1 mm thk tanged stainless steel insert (commonly SS316 and SS304) to enhance surface load and blow-out safety.
- The tanged metal insert provides superior mechanical anchoring, enhancing the material's stability, handling and pressure resistance.
- **Style 920Ti** is particularly suited for applications with extremely high and low temperatures with highly corrosive and aggressive media made for various gaskets used in petrochemical, mining vessels, boilers, piping duct, pumps and valves, flanges, Gas and steam application

Properties:

- **Chemical Compatibility:** Resistant to a wide range of chemicals including acids, alkalis, oils, steam, hydrocarbons and solvents
- **Enhanced Dimensional Stability:** The tanged metal core provides rigidity and prevents blow-out or extrusion under high load.
- **Low Creep and Relaxation:** Maintains sealing performance over long service life.
- **Superior Pressure Handling:** Suitable for pressure upto 120 bar, making it ideal for high-load sealing application.



TECHNICAL SPECIFICATIONS

SR.NO.	PROPERTIES	UNIT	SPECIFIED VALUES
1.	Density	g/cm ³	1.0
2.	Carbon	%	>98
3.	Ash	%	<2.0
4.	Sulphur	Ppm	<200
5.	Chlorine	Ppm	<40
6.	Fluorine	Ppm	<20
7.	Total Halogens (Cl+F+Br)	Ppm	<200
8.	Tensile Strength	Mpa	>4.5
9.	Compressibility	%	>40
10.	Recoverability	%	>10
11.	Weight loss (670°C)	%/H	<12
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 Tanged metal insert	SS316 / SS304
2.	Colour	Dark Grey	-
3.	Operating Temperature	-195°C to +450°C (-319°F to +842°F)	In water steam - 650°C/1202°F) in Non - Oxidizing atmosphere upto 800° 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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