

Material profile:

- Laminated Expanded Graphite Sheet, out of 5STAR®100, and perforated stainless steel (0.10mm thick).
- 5STAR® 300S is Asbestos-Free.

Typical application:

- Highest thermal and mechanical loads as well as frequently changing loads.
- Saturated steam, superheated steam, heat carrier oils; and corrosion medium;
- Extremely high relative Anti-Peel ratings compared to most laminated sheet products.

Property	unit	Value		
		1.5	2.0	3.0
Thickness	mm	1.5	2.0	3.0
Tolerance of Thickness	mm	±0.05	±0.08	±0.08
Density (graphite)	g/cm ³	1.0	1.0	1.0
Compressibility	%	30—40	35—45	40—50
Recovery	%	15—25	10—20	8—15
Leakage rate	Mg/m.s	≤0.10	≤0.12	≤0.15
Temperature :				
Max.temp. (inert atmosphere)	°C	800	800	800
Continual work temp.	°C	350	350	350
Fluid resistant :				
•ASTM 3# oil 150°C, 5h				
weight increase	%	<35	<35	<35
Thickness increase	%	≤5	≤5	≤5
•LLC50% 100°C, 22h				
weight increase	%	<30	<30	<30
Thickness increase	%	≤5	≤5	≤5
•ASTM Fuel B RT-5hr				
weight increase	%	<30	<30	<30
Thickness increase	%	≤5	≤5	≤5
Sulfur content	ppm	≤1000	≤1000	≤1000
Leachable Chloride content	ppm	≤35	≤35	≤35
Carbon content	%	≥99.0	≥99.0	≥99.0
Fluoride content	ppm	≤30	≤30	≤30

Note: This information is based on our present state of knowledge, It should therefore not be constructed as guaranteeing specific properties of the products described or their suitability for a particular application,

Supply data:

- Size in mm: 500 x 1000, 1000 x 1000, 1500 x 1500
- Thickness: 0.8 –7.0mm