

**Material profile:**

- Laminated expanded graphite sheet, out of 5STAR<sup>®</sup>100 and flat stainless steel (0.05mm,thick );
- 5STAR<sup>®</sup>700S is Asbestos Free.

**Typical application:**

- High thermal and mechanical loads as well as frequently changing loads.
- Saturated steam, superheated steam, heat carrier oils, and corrution medium.

Property	unit	Value			
		1.0	1.5	2.0	3.0
Thickness	mm	1.0	1.5	2.0	3.0
Density (graphite)	g/cm <sup>3</sup>	1.0	1.0	1.0	1.0
Compressibility	%	25—50	25—50	25—50	25—50
Recovery	%	≥10	≥10	≥10	≥10
Leakage rate	Mg/m/s	≤0.08	≤0.10	≤0.12	≤0.15
<b>Temperature :</b>					
Max.temp. (inert atmosphere)	°C	800	800	800	800
Continual work temp.	°C	250	250	250	250
<b>Fluid resistant :</b>					
<b>•ASTM 3# oil 150°C, 5h</b>					
weight increase	%	<35	<35	<35	<35
Thickness increase	%	≤5	≤5	≤5	≤5
<b>•LLC50% 100°C, 22h</b>					
weight increase	%	<30	<30	<30	<30
Thickness increase	%	≤5	≤5	≤5	≤5
<b>•ASTM Fuel B RT-5hr</b>					
weight increase	%	<30	<30	<30	<30
Thickness increase	%	≤5	≤5	≤5	≤5
Sulfur content	ppm	≤1000	≤1000	≤1000	≤1000
Leachable Chloride content	ppm	≤35	≤35	≤35	≤35
Carbon content	%	≥99.0	≥99.0	≥99.0	≥99.0

**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,

**Specification in Inventory**

- Size in mm: 500 x 1000, 1000 x 1000, 1500 X 1500
- Thickness: 0.5 –7.0mm
- Special size Technical guidance and thickness upon request.