

Statotherm® 1P 9593/1

Features

Statotherm 1P 9593/1P is a gasket sheet made from flexible, expanded graphite foils (purity > 98 %) which can be combined with a stainless steel sheet insert (material: 316 (L), 0.05 mm thick). Statotherm 1P 9593/1P is a gasket with a particularly adaptable graphite overlay that allows it to be used with low surface pressures and in fragile flanged connections.

Key physical characteristics (2.0 mm thick)

Bulk density of the graphite [g/cm ³]		1,0
Ash content of the graphite [%]	DIN 51 903	≤2,0
Purity [%]		≥98
Total chloride content [ppm]		≤25
Total halogen content [ppm]		≤100
Total sulfur content [ppm]		<300
Total loss to the air at 670 °C: [%/h]		<4
Oxidation inhibitor		yes
Passive corrosion inhibitor	ASTM F2168-13	yes
Metal insert		stainless steel insert
ASTM material number		316 (L)
Thickness (mm)		0,1
Number		1
Compressive strength $\sigma_{dE/16}$ [MPa] (300 °C, 50 MPa, 16 h)	DIN 52 913	≥45
Cold compressibility ϵ_{KSW} [%]	DIN 28090-2	40
Cold recovery ϵ_{KRW} [%]	DIN 28090-2	4
Hot creep ϵ_{WSW} [%]	DIN 28090-2	<5
Hot recovery ϵ_{WRW} [%]	DIN 28090-2	3
Compressibility [%]	ASTM F36	40
Resiliency [%]	ASTM F36	12

m- und y-Factors

Thickness	y (PSI)	y (Mpa)
1,00	2,0	900, 6,21
1,50	2,0	900, 6,22
2,00	2,0	900, 6,23
3,00	2,0	900, 6,24

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values.

We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.