

Statotherm® S6P 9593/S6

Features

Statotherm S6P 9593/S6 is a gasket sheet made from flexible graphite (purity > 98.0 %), reinforced with stainless steel tanged insert (material 316 (L), 0.1 mm thick). The outstanding properties of the Statotherm S6P 9593/S6P are especially useful in pipe flanges, hand holes and flanged connections on pumps, valves, slide valves and ball valves.

Key physical characteristics (2.0 mm thick)

Bulk density of the graphite [g/cm ³]		10
Ash content of the graphite [%]	DIN 51 903	≥ 2.0
Purity [%]		≥ 98
Total chloride content [ppm]		≥ 50
Total halogen content [ppm]		≥ 200
Total sulfur content [ppm]		
Total loss to the air at 670 °C: [%/h]		< 4
Oxidation inhibitor		Yes
Passive corrosion inhibitor	ASTM F2168-13	Yes
Metal insert		Stainless steel tanged insert
ASTM material number		316 (L)
Thickness (mm)		01
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	< 4
Hot recovery ϵ_{WRW} [%]	DIN 28090-2	4
Compressibility [%]	ASTM F36	40
Resiliency [%]	ASTM F36	12

m- und y-Factors

Thickness	y (PSI)	y (Mpa)
1,00	2,5	3.000, 20,68
1,50	2,5	3.000, 20,68
2,00	2,5	3.000, 20,68
3,00	2,5	3.000, 20,68

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.