

Statotherm 5pro 9593/5pro

Features

Statotherm 5pro 9593/5pro an adhesive-free graphite gasket sheet made from flexible graphite foil reinforced with one or two stainless steel 316 tanged inserts. The gasket sheet is impregnated to improve handling and reduce leakage. Equates to the SGL Sigraflex Universal Pro.

Key physical characteristics (2.0 mm thick)

Bulk density of the graphite [g/cm ³]		1
Ash content of the graphite [%]	DIN 51903	≤2,0
Purity [%]		≥98
Total chloride content [ppm]		≤25
Total halogen content [ppm]		≤70
Total sulfur content [ppm]		<300
Total loss to the air at 670 °C: [%/h]		<4
Oxidation inhibitor		ja
Passive corrosion inhibitor	ASTM F2168-13	ja
Metal insert		Stainless steel tanged insert
ASTM material number		316 (L)
Thickness (mm)		00
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	5
Hot creep ϵ_{WSW} [%]	DIN 28090-2	<5
Hot recovery ϵ_{WRW} [%]	DIN 28090-2	5
Compressibility [%]	ASTM F36	40
Resiliency [%]	ASTM F36	12

m- und y-Factors

Thickness	y (PSI)	y (Mpa)
1,00	-	2000, 13.79
1,50	-	2000, 13.79
2,00	2,5	2000, 13.79
3,00	2,5	2000, 13.79

Gasket Constants acc. DIN 28090-1, AD-Merkblatt B7, DIN V 2505

DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)						AD-Merkblatt B7 DIN V 2505					
P _i	Dicke H _D	σ_{vu}	σ_{vo}	m	σ_{bo}				b _D : h _D	k ₀ x k _D	k ₁
[bar]	[mm]	[N/mm ²]	[N/mm ²]		[N/mm ²]					[N/mm ²]	[mm]
					20°C	100°C	200°C	300°C			
10	1	10	200	1,3				180			
16	1	14	200	1,3				180			
25	1	17	200	1,3				180			
40	1	20	200	1,3				180			

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.