

Statotherm SSTC-TAL 9592

Features

Statotherm SSTC-TAL 9592 is a high-performance seal material made from flexible, expanded graphite (purity > 99 %). It is impregnated with a threedimensional expanded metal insert made from chromiumnickel steel (1.4404, AISI 316 (L)). The combination of performance optimised impregnation and expanded metal insert to create a seal allows it to be used universally as defined in the TA Luft. Equates to the Frenzelit Novaphit SSTC-TA-L.

Key physical characteristics (2.0 mm thick)

Bulk density of the graphite [g/cm ³]		1
Ash content of the graphite [%]	DIN 51 903	
Purity [%]		>99
Total chloride content [ppm]		≤50
Total halogen content [ppm]		
Total sulfur content [ppm]		
Total loss to the air at 670 °C: [%/h]		
Oxidation inhibitor		
Passive corrosion inhibitor	ASTM F2168-13	
Metal insert		Stainless steel expanded metal 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	36
Cold recovery ϵ_{KRW} [%]	DIN 28090-2	5
Hot creep ϵ_{WSW} [%]	DIN 28090-2	3
Hot recovery ϵ_{WRW} [%]	DIN 28090-2	4
Compressibility [%]	ASTM F36	37
Resiliency [%]	ASTM F36	17

m- und y-Factors

Thickness	y (PSI)	y (Mpa)
1,00	-	-
1,50	2,3	1.305, 9
2,00	2,3	1.450, 10
3,00	2,3	1.885, 13

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 [bar]	Dicke H ₀ [mm]	σ_{yU} [N/mm ²]	σ_{yO} [N/mm ²]	m	σ_{bO} [N/mm ²]				b ₀ : h ₀	k ₀ x K ₀ [N/mm ²]	k ₁ [mm]
					20°C	100°C	200°C	300°C			
10	1		305	1,3				10			
16	1		305	1,3				10			
25	1		305	1,3				10			
40	1		305	1,3				13			

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.