Technical Data Sheet



Statotherm HD 9593/HD

Features

Statotherm HD 9593/HD is a reinforced, multilayer graphite gasket sheet made from 0.5 mm thick layers of high quality impregnated graphite foil (purity ≥ 99.85 %) combined without adhesive with 0.05 mm thick stainless steel foil layers (AISI 316 (L)). Statotherm HD 9593/HD is outstanding for use in applications where high surface pressures are combined with high operating pressure. This seal is particularly useful where there are increased requirements in terms of seal tightness and operational safety. Equates to the SGL Sigraflex Hochdruck.

Key physical characteristics (2.0 mm thick)

P. Dicke Ha Gun Gun m		
DIN 28090 Part 1 (9/95) (DIN	E 2505 Part 2)	AD-Merkblatt B DIN V 2505
3,00 Gasket Constants acc. DIN 28090-1, AD-Merkblatt B7, DIN V 2505	2,5	3.000, 20.68
2,00	2,5	3.000, 20.68
1,50	2,5	3.000, 20.68
1,00	2,5	3.000, 20.68
Thickness	y (PSI	y (Mpa)
m- und y-Factors	(20)	
Resiliency[%]	AS I M F 30	פו
	ASTM F36	15
Compressibility[%]	ASTM F36	35
Hot recovery £WRW[%]	DIN 28090-2	4
Cold recovery ɛKRW[%] Hot creep ɛWSW[%]	DIN 28090-2	<3
Cold compressibility ɛKSW [%]	DIN 28090-2	5
Compressive strength	DIN 52 915	
	DIN 52 913	>48
Number		3
Thickness (mm)		01
ASTM material number		Stainless steel plain insert 316 (L)
Metal insert	ASTM F2100-13	ja Stoiploop stool plaip insert
Passive corrosion inhibitor	ASTM F2168-13	ja
Total sulfur content [ppm] Total loss to the air at 670 °C: [%/h]		<4
Total halogen content [ppm]		≤40 <300
Total chloride content [ppm]		≤10
Purity[%]		≥99,85
Ash content of the graphite [%]	DIN 51 903	≤0,15
Bulk density of the graphite [g/cm³]		

DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)									DIN V 2505		
Pi	Dicke H _D	σ _{vu}	σ_{vo}	m	σ _{bo}				b _D : h _D	k _o x K _D	k ₁
[bar]	[mm]	[N/mm²]	[N/mm ²]		[N/mm ²]					[N/mm²]	[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.