



Highly resistant hygienic gasket for “TRI-CLAMP” couplings

Seaco-Flon-Chem-500 is a Micro-structured, reinforced Modified PTFE hollow glass microspheres filled seal which provides a safe and durable solution for protecting the integrity of food and pharmaceutical processing media. Its modified and restructured PTFE material is pre-formed and stress controlled for all standard TRI-CLAMP connections. It is dimensionally stable and resists intrusion.

FEATURES AND BENEFITS

- No intrusion and no cold flow
- Maintains excellent sealing characteristics under vibration, flange misalignment and high temperature differentials
- Can be installed in a wide range of pressure connections
- Reduces downtime and costs
- Excellent for all process temperatures
- High resistance to almost all chemicals and temperature cycles
- Reduces inventory
- Reduces risk of improper installation

SPECIFICATIONS

- Min. Temp: -200°C
- Max. Temp: +260°C
- Dimensions in accordance with DIN 32676, DIN 11850, ISO 1127, ASME BPE-2009 (BS4825) , ISO 2852 and SMS 3019
- All the available materials are FDA – 1935/2004 CE – 10/25011 UE approved

APPLICATIONS

- Food processing
- Pharmaceutical

Properties

Properties	Test Method	Unit	Value
Colour			BLUE
Max operating Temperature		°C	-200 / +260
Max operating pressure		bar	50
PxT		bar x°C	12000
Density	ASTM D792	gr/cm3	1,70 +/-0,05
Compression Modules 23°C-20 MPa KSW		%	25
Creep relaxation 23°-1 MPa KSW	DIN 28090-2	%	6
Compression Modules 150°C-20 Mpa 16h WSW	DIN 28090-2	%	35
Creep Relaxation 150°C-1 Mpa – 16h WSW	DIN 28090-2	%	4
Tensile strength	ISO 13000-2	MPa	> 13
Elongation at break	ISO 13000-2	%	> 200
Compressibility	ASTM F36A	%	40
Recovery	ASTM F36A	%	35
Leakage rate	DIN 3535-6	MG(S-M)	< 0,01
Y (1.5 – 3.0 mm)	ASME VIII	MPa	11 – 17,5
M (1,5 – 3,0 mm)	ASME VIII	factor	3 – 3,8

Note : these are typical properties and not used for specification purpose

Warranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.

DIMENSIONS

DIN 32676		
DIN 11850		
(DIN 11866 Series A)		
DN	Ø D3	Ø D1
6*	6,2	21,8
8*	8,2	21,8
10	10,2	34
15	16,2	34
20	20,2	34
25	26,2	50,5
32	32,2	50,5
40	38,2	50,5
50	50,2	64
65	66,2	91
80	81,2	106
100	100,2	119
125	125,2	155
150	150,2	183
200	200,2	233,5

DIN 32676		
DIN 11850		
(DIN 11866 Series A)		
DN	Ø D3	Ø D1
10,2*	on request	
13,5*	10,5	21,8
17,2*	14,2	21,8
21,3	18,3	50,5
26,9	23,9	50,5
33,7	29,9	50,5
42,4	38,6	64
48,3	44,5	64
60,3	56,5	77,5
76,1	72,3	91
88,9	84,5	106
114,3	109,9	130
139,7	134,7	155
168,3	163,3	183
219,1	214,1	233,5

DIN 32676		
DIN 11850		
(DIN 11866 Series A)		
DN	Ø D3	Ø D1
1/4"*	4,8	21,8
3/8"*	8	21,8
1/2"*	9,6	21,8
3/4"*	16	21,8
1"*	22,3	31,1
1"	22,3	50,5
1 1/2"	35	50,5
2"	47,7	64
2 1/2"	60,4	77,5
3"	73,1	91
4"	97,6	119
6"	147,1	167

DIN 32676		
DIN 11850		
(DIN 11866 Series A)		
DN	Ø D3	Ø D1
12	10,2	34
12,7	10,9	34
17,2	15,4	34
21,3	19,5	34
25	22,8	50,5
33,7	31,5	50,5
38	35,8	50,5
40	37,8	64
51	48,8	64
63,5	60,6	77,5
70	67	91
76,1	73,1	91
88,9	85,1	106
101,6	97,8	119
114,3	110,5	130
131,7	135,9	155
168,3	168,3	183
219,1	214,1	233,5

DIN 32676		
DIN 11850		
(DIN 11866 Series A)		
DN	Ø D3	Ø D1
12	10	34
18	16,2	34
25	22,8	50,5
33,7	31,5	50,5
38	35,8	50,5
51	48,8	64
63,5	60,5	77,5
76,1	73,1	91
88,9	85,1	106
101,6	97,8	119
114,3	110,35	130
139,7	135,9	155
168,3	163,3	183
219,1	214,1	233,5

*=G/H/L