

RAITECH® SUPRA-FLEX® 11



CARBO:KING® S Carbon fiber +
Grafito + NBR + Aditivos.

High resistance to pressure and temperature.

Diseñado para:

Heat exchangers (plate and tube), Industrial boilers (doors and steam outlets), Evaporators, Autoclaves, Industrial gas and air compressors, Control valves (caps/bonnets), Flange pipe connections, Chemical reactors, Distillation and fractionation columns, Pressure vessels, Steam turbines.

SUPRAFLEX® 11 is a flexible, high-performance sheet manufactured with a blend of CARBO:KING® fibers and HEXA:GRAF® graphite additives, using NBR as a binder. Its state-of-the-art calendering process results in uniform thickness throughout the sheet, ensuring high-quality finished products. The special blend of high-performance fibers with the NBR elastomer provides unparalleled flexibility, facilitating cutting and minimizing waste. This blend also enhances its resistance to high temperatures and pressures. Furthermore, its high compressibility allows it to conform more easily to sealing surfaces, providing a firm seal against the fluid.

It features a PK567 non-stick film for easy removal.

Applications:

SUPRAFLEX® 11 is recommended for sealing petroleum products, water, saturated steam, gases, aliphatic and chlorinated solvents, refrigerants, and chemicals in general.

Its high sealing capacity allows it to perform excellently in gas service, reducing emissions.

Data Sheet.

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TECHNICAL DATA

Properties:	SUPRAFLEX® 11	Sheet
Composition:	CARBO:KING® S Carbon fiber + Grafito + NBR + Aditivos.	
Anti-Stick:	PK567 - Inorganic	
Applicable standards:	ASTM F104	
Required Flange Roughness, Ra:	1/16" = 3.2-6.3 1/8" = 3.2-12.5	µ
Density:	112.37	Lb/ft3
Temperature, Max:	842	°F
Temperature, Min:	-40	°F
Temperature, Continuous:	500	°F
Pressure, Max:	1,886	Psi
Compressibility, ASTM F36a:	7-12	%
Recovery, ASTM F36a:	>50	%
Weight Increase, ASTM F146, FUEL B:	10%	%
Thickness Increase, ASTM F146, FUEL B:	8%	%
Tensile Strength, ASTM F152:	2,176	Psi
Stress Relaxation, DIN 52913:	5,221	Psi
Creep Relaxation, ASTM F38:	20	%
Sealability, ASTM F37:	>0.20	ml/h
Dielectric Strength, ASTM D-149:	--	Kv/mm
pH Range:	2-12	
"M&Y" Values @ 1/8, ASME PVRC:	M: 3 Y: 3,000	
"M&Y" Values @ 1/16, ASME PVRC:	M: 2.5 Y: 1,800	
P x T @ 1/8, Psi x °F:	300,000	°F x Psi
P x T @ 1/16, Psi x °F:	540,000	°F x Psi
Thickness Tolerance, ASTM F104:	±10	%
Dimensional tolerance:	±5	%
Thicknesses:	1/32", 1/16" & 1/8"	
Dimensions:	60" x 60" (in) 60" x 120" (in)	

****The maximum temperature and pressure limits should not occur simultaneously.**



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All technical information and recommendations given in this document are based on our experience. However, we do not accept any liability. The data and values presented should be reviewed by the user, bearing in mind that sealing success can only be achieved by evaluating all parameters and variables directly on the job site. The parameters in this document are approximate and may influence each other if they occur simultaneously. Please contact us for critical applications or where there is any doubt.