

## STYLE: AF-5450

A distinctive design of Araflex for a high trouble sealing area of Steam and Hydrocarbons. Piping experts always demand an alternate to graphite gaskets. AF-5450 contains high strength Carbon Fibers and Aramid fiber bonded with NBR synthetic rubber. Best worked with refinery, petrochemical, water desalination and power generating industries.



### TYPICAL PROPERTIES

Color	Black, Branded
Fiber:	Carbon Fiber, Aramid Fiber
Binder:	NBR
Fluid Service:	Steam, Alakline media , oils, fuels , hydrocarbons and detergents.
Density:	1.6 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	1800 psi (12.4 Mpa)
Change in Tensile, ASTM F-152	25% Max
Compressibility ASTM F 36:	8 to 16%
Recovery ASTM F 36:	50%
Temperature	
Range:	-100 to 752°F (-73 to 400°C)
Max. Continuous :	600°F (315°C)
Max. Pressure:	2175 psig (150 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 10%
Weight increase: ASTM Fuel B 5h/70°F (21°C)	10%
Thickness Increase:	0 to 10%
Weight increase:	12%
Sealability	
ASTM F 37 (Fuel A):	0.03ml/hr

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ASTM F37 (Nitrogen):	0.4 ml/hr
Dielectric Breakdown ASTM D 149:	14kV/mm (370V/mil)
DIN 3535 Gas Permeability:	0.05cc/min
Creep relaxation ASTM F 38:	18%
Flexibility ASTM F1 47:	10x
<b>Gasket Factors of Araflex-AF-5450</b>	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	3.7	3.0
<b>y psi (Mpa)</b>	3515 (24.2)	4010 (27.50)

Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

Araflex Warning: Araflex gasket materials should never be recommended when both the temperature and the pressure are at the maximums listed. Properties and applications shown are typical. No application should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint, and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious personal injury. The data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. The information and specifications contained in this website are subject to change without notice.

