



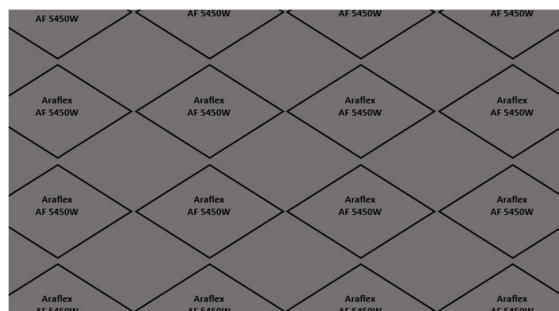
# ARAFLEX

GASKETS & JOINTINGS Pvt. Ltd.

## COMPRESSED NON-ASBESTOS FIBER STYLE: AF-5450W

High pressure and high temperature applications.

Extended from AF 5450 to AF 5450W by spreading steel wire to withstand severe conditions of pressure and temperature. AF-5450W contains high strength carbon fibers bonded with NBR synthetic rubber and steel wire reinforced. Best worked with boilers, refinery, petrochemical, water desalination and power generating industries.



## TYPICAL PROPERTIES

Color	Black, Branded
<b>Fiber:</b>	<b>Carbon Fiber</b>
<b>Binder:</b>	<b>Nitrile (NBR)</b>
<b>Reinforcement</b>	<b>Steel Wire</b>
<b>Fluid Service:</b>	<b>Steam, Water, Oils, Dilute Acids &amp; Alkalies, Hydrocarbons, Solvents, Refrigerants.</b>
<b>Density:</b>	<b>1.6 g/cm<sup>3</sup></b>
<b>Tensile Strength ASTM F 152:</b>	<b>2175 psi (15.0 Mpa)</b>
<b>Change in Tensile, ASTM F-152</b>	<b>20% Max</b>
<b>Compressibility ASTM F 36:</b>	<b>10 to 17%</b>
<b>Recovery ASTM F 36:</b>	<b>40%</b>
<b>Temperature</b>	
<b>Range:</b>	<b>-100 to 752°F (-73 to 400°C)</b>
<b>Max. Continuous :</b>	<b>600°F (315°C)</b>
<b>Max. Pressure:</b>	<b>2175 psig (150 bar)</b>
<b>Fluid Resistance-ASTM F146</b>	
<b>IRM 903 Oil, 5h/300°F (150°C)</b>	
<b>Thickness increase:</b>	<b>0 to 10%</b>
<b>Weight increase:</b>	<b>10%</b>
<b>ASTM Fuel B 5h/70°F (21°C)</b>	
<b>Thickness Increase:</b>	<b>0 to 10%</b>
<b>Weight increase:</b>	<b>12%</b>
<b>Sealability</b>	
<b>ASTM F 37 (Fuel A):</b>	<b>0.03ml/hr</b>
<b>ASTM F37 (Nitrogen):</b>	<b>0.4 ml/hr</b>
<b>Dielectric Breakdown ASTM D 149:</b>	<b>14kV/mm (370V/mil)</b>
<b>DIN 3535 Gas Permeability:</b>	<b>0.05cc/min</b>
<b>Creep relaxation ASTM F 38:</b>	<b>19%</b>

<b>Flexibility ASTM F1 47:</b>	10x	
<b>Gasket Factors of Araflex-AF 5450</b>		
<b>Thickness (inch)</b>	<b>1/16"</b>	<b>1/8"</b>
<b>m factor</b>	3.8	3.0
<b>y psi (Mpa)</b>	3800 (26.2)	4200 (28.95)

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.