GARDICO, INCORPORATED

522T
Non-Asbestos Sheet Packing
Aramid Fibers / NBR Binder

CONSTRUCTION

Style **522T** is a compressed non-asbestos sheet gasket material produced from a combination of aramid and other synthetic fibers and bonded with nitrile rubber (NBR). It is manufactured through the hot calendar process under rigorous quality control standards that are registered under ISO-9002 certification.

APPLICATION / SERVICE

Style **522T** is a very good general service gasket material that has numerous applications in the process industries and in the water and wastewater industry. It is also commonly used in equipment such as valves and pumps. Style **522T** is suitable for service handling the following general media categories:

Mild inorganic acids	Air	General chemicals
Mild organic acids	Industrial Gases	Aliphatic solvents
Concentrated alkalies	Animal oils	Aromatic solvents
Diluted alkalies	Synthetic oils	Oxygenated solvents
Water	Vegetable oils	Neutral solutions
Brine	Petroleum and Derivatives	Refrigerants

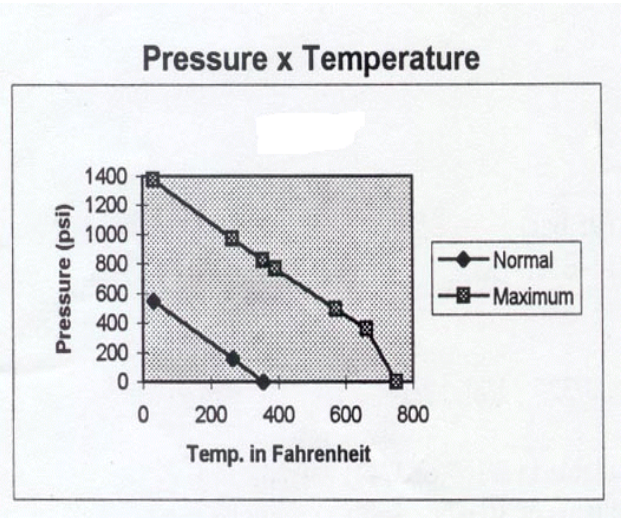
PRODUCT DATA

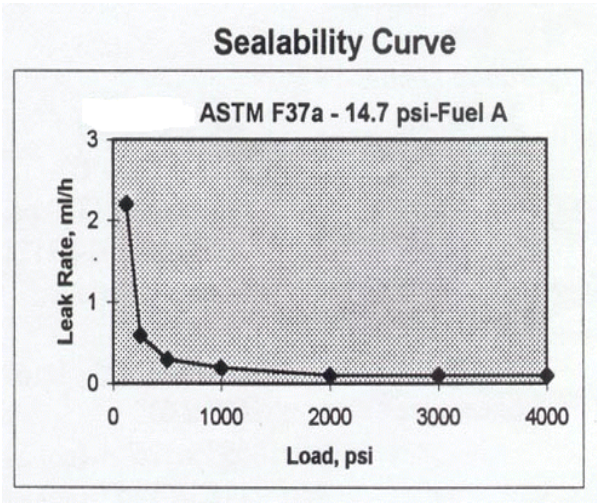
Temperature Limits:	
Minimum	-40 ºF (-40 ºC)
Maximum	750 ºF (400 ºC)
Pressure Limits:	vacuum to 1370 psi (95 bar)
ASTM Line Call Out:	ASTM F104-F712121-B5E11M5
Color:	Green or White
Available Sheet Sizes:	
Thicknesses:	1/64", 1/32", 1/16", 3/32", 1/8", 3/16", 1/4"
Sheet Sizes:	59" x 63"
	59" x 126" (not available in 3/16" or 1/4")
	1 1 8" x 126" (not available in 3/16" or 1/4")

NOTE: For “Typical Physical Properties", PxT limits and the Sealability Curve, please see the reverse side of this sheet.

TYPICAL PHYSICAL PROPERTIES 522T		
ASTM TEST METHOD	**PHYSICAL PROPERTIES**	**VALUES**
F36	Compressibility	11%
F36	Recovery	60%
F38	Creep Relaxation	27%
F495	Ignition Loss	30%
F146	Weight Increase After Five Hour Immersion ASTM IRM 903 @ +300"F (+150"C) ASTM Fuel B @ +70-85"F (+21-290C)	 10% 9%
F146	Thickness Increase After Five Hour Immersion ASTM IRM 903 @ +300"F (+150"C) ASTM Fuel B @ +70-85"F (+21-290C)	 9% 7%
F152	Tensile Strength Across Grain	1740 psi (12 N/mm^2)
	Density	105 lb/cf (1.7 gm/cc)

The P x T graph shown above indicates the





service limits for this sheet considering pressure and temperature simultaneously ... (Tests were performed with nitrogen on 1.6mm thick sheet). The "normal" curve represents the common usage area for this sheet while the "maximum" curve indicates the maximum limits. For applications near the "maximum" curve, contact Gardico.

Properties and application parameters shown are typical and are presented in good faith but no warranty is expressed or implied. This edition supersedes all previous issues and all data is subject to change without notice.