



**GARDICO, INCORPORATED**

**Klinger C-4401 /522B**  
Non-Asbestos Sheet Packing  
Synthetic Fibers / NBR Binder

### **CONSTRUCTION**

Style **C-4401** is a compressed non-asbestos sheet gasket material produced from a combination of 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-9001 certification.

### **APPLICATION / SERVICE**

Style **C-4401** 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 **C-4401** is suitable for service handling the following general media categories:

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

### **PRODUCT DATA**

*Temperature Limits:*

Maximum 750 °F (400 °C)

*Pressure Limits:*

to 1400 psi (96 bar)

*ASTM Line Call Out:*

ASTM F104: F712121-B3E12K6M5

*Color:*

Green

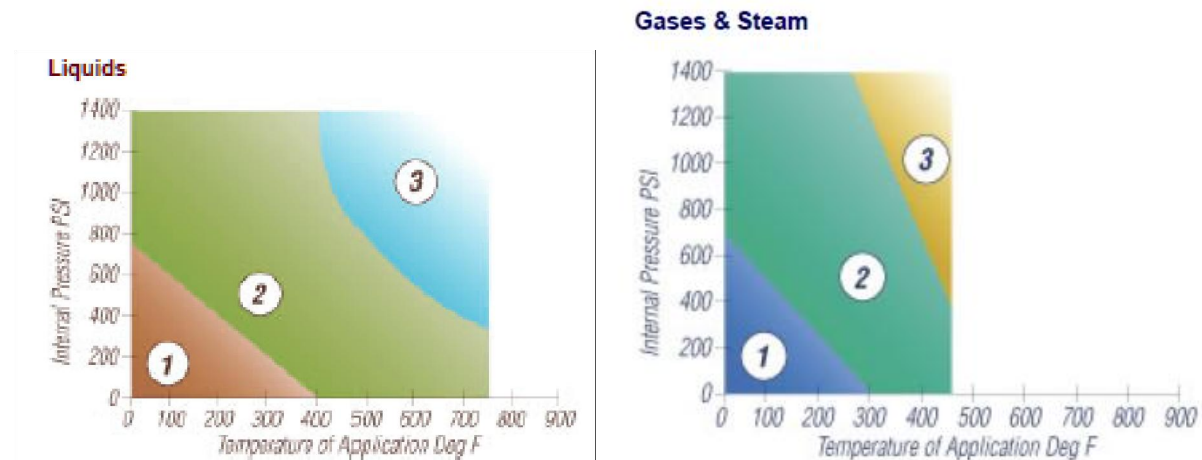
*Available Sheet Sizes:*

Thicknesses: 1/64", 1/32", 3/64", 1/16", 3/32", 1/8"

Sheet Sizes: 60" x 60"

**NOTE:** For "Typical Physical Properties" and P x T limits please see the second sheet.

TYPICAL PHYSICAL PROPERTIES C-4401		
ASTM TEST METHOD	PHYSICAL PROPERTIES	VALUES
F36J	Compressibility	7%
F36J	Recovery, Min	50%
F38B	Creep Relaxation	20%
F37A	Sealability, ml/hr	< 0.25
F146	Weight Increase After Five Hour Immersion ASTM Fuel B @ +73°F (+23°C), Max	10%
F146	Thickness Increase After Five Hour Immersion ASTM Oil 1, 5hr @ +300°F ASTM IRM 903, 5hr @ +300°F (+149°C) ASTM Fuel A, 5hr @ +73°F (+23°C) ASTM Fuel B, 5hr @ +73°F (+23°C)	0-5% 0-5% 0-5% 0-7%
F152	Tensile Strength Across Grain	1740 psi (12 N/mm <sup>2</sup> )
F1315	Density	112 lb/cf (1.8 gm/cc)



The P x T graphs shown above indicate the service limits for this sheet considering pressure and temperature simultaneously. **Area 1** is suitable for common installation practices according to chemical compatibility; **Area 2** is suitable with installation to ensure maximum performance; **Area 3** should not be used unless factory is consulted.

*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.*