

COMPRESSED FIBER SHEET

SF 1630

PRODUCT PROFILE

SF 1630 is a high quality cellulose, aramid fiber sheet with an NBR and NR binder, ideal for hydrotesting and low temperature, non-critical applications. Suitable for sealing water and mild chemicals. The values given below are based on 1/32" thick material, unless otherwise noted.

SERVICE

Max T (at min. thickness)	356°F (180°C)
Max P (at min. thickness)	1015 psi (70 MPa)
pH Range	4 - 10

PHYSICAL PROPERTIES

Color	Lite Green
Density	112 lb/ft ³ (1.80 g/cc)
Sheet Thickness	1/8", 0.08", 1/16", 0.04", 1/32", 1/64"
Sheet Size	60" x 60", 60" x 120" (1.50 m x 1.50 m, 1.50 m x 3.00 m)

MECHANICAL PROPERTIES (ASTM F152)

Cross Grain Tensile	870 psi (6 MPa)
With Grain Tensile	-

IMMERSION PROPERTIES (ASTM F146)

Thickness Increase	IRM 903 @ 300°F	20%
	Fuel B @ 70 - 85°F	11%
Weight Increase	IRM 903 @ 300°F	10%
	Fuel B @ 70 - 85°F	11%

SEALING PROPERTIES

ASTM F36	Compressibility	12%
	Recovery	52%
ASTM F37A	Fuel A @ 10 psi & 1000 psi Gasket Stress	-
ASTM F38	Creep Relaxation	-
BS 7531	Nitrogen Gas permeability	0.1 mL/min

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DESIGN INFORMATION

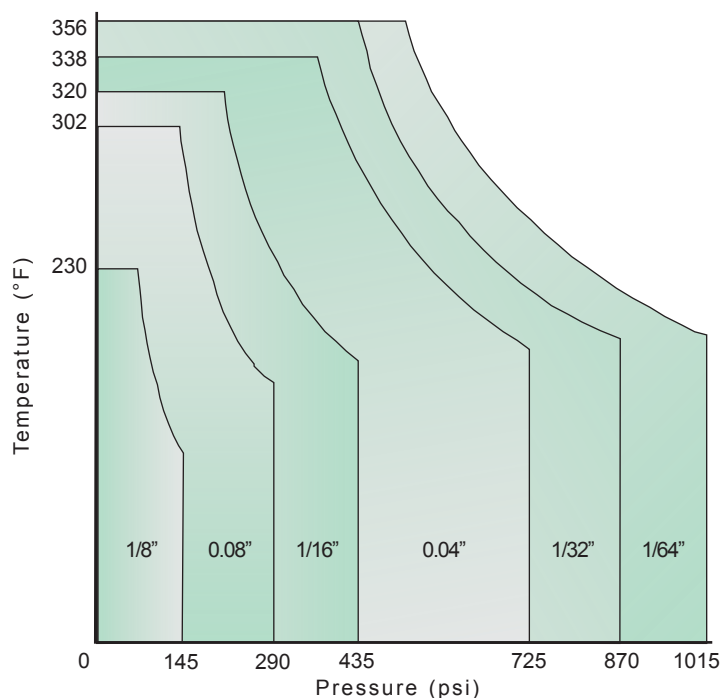
Gasket Constants	m	3.5
	y	2610 psi (18 MPa)
PVRC Constants (1/16" thick)	Gb	-
	a	-
	Gs	-
TPmax		
Recommended Surface Finish	125 - 250 µin (3.2 - 6.3 µm)	
Dielectric Strength	-	
ASTM Callout	712230E3E5M5 †	

† some digits may be chosen differently

PRESSURE CONTAINMENT AND TEMPERATURE

SF 1630 Thickness (in.)	1/64"	1/32	0.040	1/16	0.080	1/8
Max. Temperature (°F)	356	356	338	320	302	230
Max. Pressure (psi)	1015	870	725	435	290	145

NOTE: Above pressure/temperature cannot be used simultaneously.



Major Manufacturing Plants

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