

SIF® Felt and Custom Felt

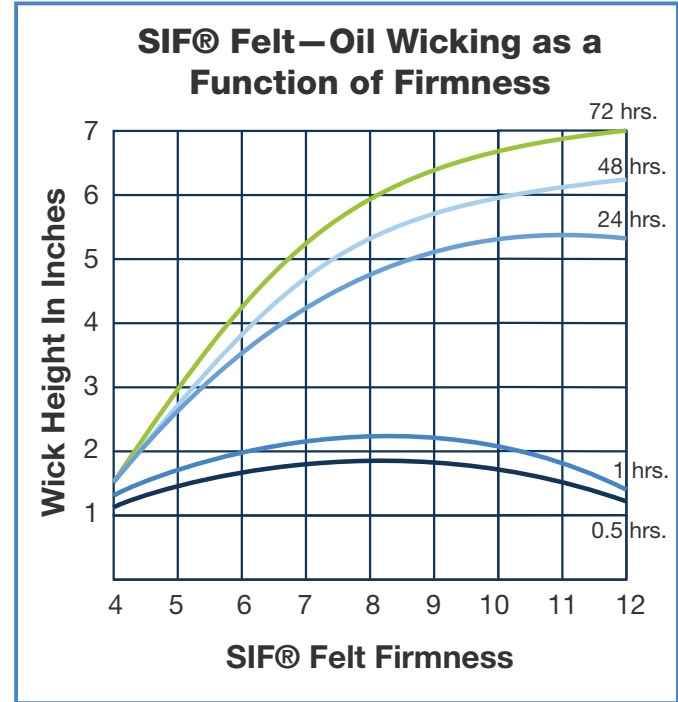
Product Sheet

Sound absorbers • air and liquid filters

Overview

SIF® Felt and Custom Felt are compressed flexible polyester or polyether polyurethane foams. SIF® Felt is made by permanently compressing a fully reticulated 90 pores-per-linear-inch (ppi) foam through time, pressure and heat, while Custom Felt is made in the same manner from a nonreticulated foam base stock. The standard grade of SIF® Felt, Grade 900 is made from 90 ppi reticulated foam with 97% void volume before felting. Other grades, in different pore sizes, are available. The thickness ratio of unfelted base stock to felted foam is referred to as the material's firmness. For example, firmness 4 SIF® Felt has a compression ratio of 4-to-1. Firmnesses up to 20 and thicknesses as low as 0.025" are available.

SIF® Felt and Custom Felt performance properties can be engineered to meet design specifications in a wide range of applications. They are excellent sound absorbers, air and liquid filters, and have excellent qualities for use as oil wicks and reservoirs, gaskets, ink pads and rollers, pressure pads, and vibration mounts. Felted foams have high physical strength, abrasion resistance and solvent resistant qualities.



*Quick Facts

	4-900Z	6-900Z	8-900Z	10-900Z	12-900Z	4-900C	6-900C	8-900C	10-900C	12-900C	4-700ZE	8-700ZE
Foam Type	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyether	Polyether
Average Density (pcf)	7.5	11.5	15	19	22.5	7.5	11.5	15	19	22.5	7	13.5
Estimated Void Volume (%)	89	84	79	74	68	— ²	— ²	— ²	— ²	— ²	89	79
Tensile Strength (psi)	110	160	200	265	330	105	150	195	230	280	75	150
Elongation (%)	450	450	425	245	310	425	390	385	370	375	315	290
25% Compression Force Deflection (psi)	2	6	10	22	47	2	6	14	29	41	2	10
65% Compression Force Deflection (psi)	16	32	62	75	78	13	40	60	90	90	11	58
50% Compression Set (%)	18	18	18	16	12	18	18	22	22	20	15	11
Frazier Permeability (cfm/ft ²)	78	43	20	14	6	— ²	— ²	— ²	— ²	— ²	113	33

1 Not to be used as a specification. Physicals from 1/4" materials
 2 Void Volume and Frazier Permeability are not applicable to Custom Felt

*Typical physicals not to be used for specification purposes. Please contact your account rep for specification information.

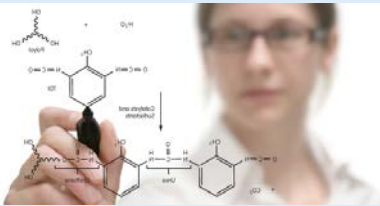


SIF® Felt and Custom Felt

Product Sheet

SIF® Felt Absorption Data

Firmness	Oil Absorption	
	gms/cc	% by volume
2	0.41	47%
4	0.57	66%
6	0.64	73%
8	0.68	78%
10	0.58	66%
12	0.54	62%



About FXI

FXI is a leading producer of foam innovation in the Bedding, Furniture, Industrial, Home & Office, Healthcare and Transportation Markets. Our focus is on finding tailored solutions for our customers that are driven by consumer insights and industry trends. Our products include finished goods, sub-assemblies, services and raw materials for OEMs, fabricators and retailers. You will find FXI's foam innovations inside, around and under yourself in countless applications. We protect automobile passengers on the highway, help consumers sleep sounder and furniture manufacturers create comfort. We provide for sharper images in digital printers and help consumers keep their homes clean. We provide critical components for filters, gaskets and seals in everything from blood oxygenators to computer disk drives. Everywhere foam goes; FXI's innovations lead the way.

IMPORTANT NOTICE REGARDING FLAMMABILITY— All polyurethane foams including combustion modified foams will burn and generate smoke and gases. Performance conditions and corresponding data refer to typical performance in specific tests, such as UL-94 and MVSS-302, and should not be construed to imply the behavior of this or any other product under other fire conditions. All data regarding these products were obtained using specific test methods under controlled laboratory conditions intended to measure performance against specifications. Due to the great number and variety of applications for which FXI products are purchased, FXI does not recommend specific applications or assume any responsibility for use results obtained or suitability for specific applications. FXI warrants its products only to direct buyers. (See FXI's Standard Terms of Sales for FXI's warranty.) IN NO EVENT SHALL FXI BE RESPONSIBLE FOR ANY CLAIM IN EXCESS OF FXI'S SALE PRICE OF THE PRODUCT TO WHICH THE CLAIM RELATES.

*Typical physicals not to be used for specification purposes. Please contact your account rep for specification information.

FXI Technical Product Innovations
fxi.com

