

Wool Felt Specifications

Superior Felt & Filtration



U.S. Federal Specifications C-F-206G

Also Referenced as J314/ASTM D 461/ASTM D 2475/ASTM D 1777

Type I Roll Felt SAE No.	F-1	F-2	F-3	F-5	F-7	F-10	F-11	F-13	F-15N	F-26N	F-50	F-51	F-55
Classification No..	16R1	16R2	16R3	12R1	12R3	9R1	9R2	9R4	9R5	8R5	16R1X	16R3X	12R3X
Wool Content %	95	90	85	95	80	95	87	75	55	45	95	92	75
Chlorothene Solubles %	2.5	2.5	2.5	2.5	4.0	2.5	3.0	4.0	4.0	8.0	2.5	2.5	4.0
Water Solubles %	2.5	2.5	3.0	2.5	4.0	2.5	2.5	4.0	5.0	6.0	2.5	2.5	4.0
Total Solubles %	3.0	4.0	4.5	3.0	7.0	3.0	4.5	8.0	9.0	14.0	3.0	4.5	8.0
Ash Content %	1.5	2.0	2.5	2.0	3.0	2.5	3.0	3.5	4.0	5.0	1.5	2.5	3.0
Tensile Strength psi	500	500	400	400	250	225	200	75	75	75	500	300	200
Slit Resistance psi	33	28	22	18	12	8	6	2	2	2	33	22	12
Width = Inches	60	60	60 or 72	60	72	72	72	72	72	72	60	60 or 72	72
Color	White	Pink	Gray	White	Gray	White	Gray	Gray	Gray	Gray	White	Gray	Gray or Black
Thickness vs Biasis Weight	F-1		F-2		F-3				F-5 & F-7				
Thickness Range (inches)	Thickness Range		Weight lb/yd		Thickness Range		Weight lb/yd		Thickness Range		Weight lb/yd		
1/16	0.050 -0.075		0.10 -1.05										
1/8	0.113 -0.137		1.90 -2.10		0.113 -0.137		1.80 -2.10		0.111 -0.139		1.45 -1.61		
3/16	0.175 -0.201		2.85 -3.15		0.175 -0.201		2.78 -3.08		0.172 -0.204		2.17 -2.41		
1/4	0.236 -0.264		3.80 -4.20		0.236 -0.264		3.61 -4.19		0.232 -0.268		2.90 -3.22		
5/16	0.298 -0.328		4.75 -5.25		0.298 -0.328		4.50 -5.24		0.293 -0.333		3.62 -4.02		
3/8	0.359 -0.391		5.70 -6.30		0.359 -0.391		5.41 -6.29		0.353 -0.397		4.35 -4.83		
1/2	0.481 -0.519		7.60 -8.40		0.481 -0.519		7.21 -8.39		0.474 -0.526		5.80 -6.80		
5/8	0.603 -0.647		9.50 -10.50		0.603 -0.647		9.01 -10.49		0.595 -0.655		7.25 -8.05		
3/4	0.725 -0.775		11.40 -12.60		0.725 -0.775		10.81 -12.59		0.716 -0.784		8.70 -9.66		
1	0.969 -1.031		15.20 -16.80		0.969 -1.031		14.41 -16.79		0.958 -1.042		11.60 -12.88		
Thickness vs Biasis Weight	F-10 / 11 / 13 & 15N			F-26N		Thickness vs basis weight			F-50/51 & F-55 Grey & Black				
Thickness Range (inches)	Thickness Range		Weight lb/yd		Thickness + Weight		Thickness Range (inches)			Thickness Range		Weight lb/yd	
1/16	0.050 -0.075				Range " Wgt lb/yd		3/64			0.040 -0.054		0.712 -0.788	
1/8	0.105 -0.145		0.98 -1.14		.085-.165 0.90		1/16 **			0.056 -0.070		0.937 -1.013	
3/16	0.165 -0.211		1.47 -1.71				5/64			0.071 -0.085		1.162 -1.238	
1/4	0.224 -0.276		1.96 -2.28		.194-.306 1.80		3/32 **			0.087 -0.101		1.387 -1.463	
5/16	0.284 -0.342		2.45 -2.85				Properties that apply to all Wool Felt Type I						
3/8	0.343 -0.407		2.94 -3.42		303-.447 2.70		Acid Resistance			Good (Except F-7)			
1/2	0.462 -0.538		3.92 -4.56		412-.588 3.60		Alkali Resistance (dilute)			Fair			
5/8	0.581 -0.669		4.90 -5.70				Solvent Resistance			Excellent			
3/4	0.700 -0.800		5.88 -6.84		630-.870 5.40		Compression Recovery			99%			
1	0.938 -1.062		7.84 -9.12		848-1.152 7.20		Effect of Sunlight and Oxidation			None			
Wool Felts are naturally flame resistant. Although they will burn when exposed to an open flame, when the flame is removed the felt will extinguish itself							Temperature Range			-80 to +200 F			
							Thermal Expansion			0			
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