



## F-1 SPECIFICATIONS

Commercial Standard Grade	16R1
SAE Number	F-1
NTA Number	34R1
<b>GENERAL PROPERTIES</b>	
Minimum Wool Content	95%
Density (1")	16.00 lbs/sq yd
Standard Thickness Range	1/8" to 1"
Standard Width	60"
Color	White
<b>PHYSICAL PROPERTIES</b>	
Specific Gravity	0.34
Thermal Condition (70F)	0.36 btu / hr /sq ft / °F / in
Thermal Expansion	0
Air Perm (1/16")	10-30 cfm / sq ft / 0.5" H2O
Liquid Absorption by weight by volume	> 175% (1.0 sp gr) 74%
Capillarity (wicking height, 575 SSU, 70F)	4
Coefficient of Friction	0.37
Vibration Absorption Static load bearing cap/unit area	High
Dynamic Stress Endurance	High
Noise Reduction Coef (1")	0.50
<b>MECHANICAL PROPERTIES</b>	
Tensile Strength (min)	500 psi
Elongation 100% (100 psi)	13
Mullen Bursting Strength (1/8")	250 psi
Split Resistance (min)	33 lb/2" width
Hardness Range Shore A	30-40
Compressibility (10% defl.)	21 psi
Recovery (within 1 min after 10% defl.)	99%
Abrasion Resistance	Excellent
<b>CHEMICAL AND ENVIRONMENTAL PROPERTIES</b>	
Effect of Sunlight and Oxidation	None
Solvent Resistance and Stability in Oil	Excellent
Acid Resistance, dilute	Excellent
Concentrated	Good -Fair
Alkali Resistance, dilute	Fair
Concentrated	Low
Temperature Range	-80°F to +200°F
<b>TYPICAL USES</b>	
Bearing seals, ink rolls, polishing, printing pads, lubricator wicks, and precision uses where high grade felt with good appearance and durability is desired.	

