



These data were obtained by ASTM D-461 Test Methods, ASTM D-2475 Standards, and NTA Wool Felt Specifications.

F-10 Specification and Uses	
Commercial Standard Grade	9R1
SAE Number	F-10
NTA Number	18R I
GENERAL PROPERTIES	
Wool Content (fiber basis)	min. 95%
Density (1")	8.48 lbs/sq yd
Standard Thickness Range	1/8" to 1"
Standard Width	72"
Color	White
PHYSICAL PROPERTIES	
Specific Gravity	18%
Therm. Cond. (70F)	0.30 btu/hr/sq. ft./°F/in.
Thermal Expansion	0
Air Perm (1/16")	75-150 cfm/sq ft/0.5"H2O
Liquid Absorption by volume	>400% by weight (1.0 sp gr) 88
Capillarity (wicking height, 575 SSU, 70F)	2.50
Coef of Friction (1)	0.37
Vibration Absorption (2) static load bearing cap/unit area dynamic stress endurance	Low High
Noise Reduction Coef (1")	0.58
MECHANICAL PROPERTIES	
Tensile Strength (min)	225 psi
Elongation (100 psi)	33%
Mullen Bursting Strength (1/8")	75 psi
Split Resistance (min)	8 lb/2" width
Hardness Range	15-25 Shore A
Compressibility (10% defl)	4 psi
Recovery (within 1 min after 10% defl)	99%
Abrasion Resistance (3)	Fair



CHEMICAL AND ENVIRONMENTAL PROPERTIES	
Effect of Sunlight and Oxidation	None
Solvent Resistance and Stability in Oil	Excellent
Acid Resistance, dilute concentration	Excellent fair-good
Alkali Resistance, dilute concentration	Fair Low
Temperature Range	-80 to +200 °F
TYPICAL USES	
Fluid storage and delivery, resilient padding, plug filters for gas and air.	