

AUBURN PRODUCT NEWS

Auburn Manufacturing Company

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SAE F-3 WOOL FELT (Typical Properties)

F-3 Felt is used for anti-squeak strips, anti-vibration pads, bearings, bumpers, bushings, dust shields, shock dampers, spacers, washers and polishing blocks. **F-3 Felt** is similar to 16R1 and 16R2, where lower quality is acceptable. **F-3 Felt** is 85% wool, light in weight, easy to die-cut into specific shapes and less expensive than other types of SAE Felt. **F-3 Felt** readily accepts pressure-sensitive adhesive. Sheets or rolls, in addition to die-cut parts, are available either plain or with an adhesive-backing applied to one or both sides. **F-3 Felt** can be supplied in any thickness between 1/64" to 4.00". **F-3 Felt's** standard color is grey.

Commercial Standard Grade

SAE Number

NTA Number

16R3

F-3

34R3

General Properties

Wool Content (fiber basis), min. %	85
Density (1") , lbs/sq yd	15.60
Standard Thickness Range, in.	1/64" thru 4.00"
Standard Width, in.	60
Color	Grey

Physical Properties

Specific Gravity (%)	34	
Therm. Cond. (70F), btu/hr/sq ft/°F/in.	0.35	
Thermal Expansion	0	
Air Perm (1/16"), cfm/sq ft/0.5"H ₂ O	15-35	
Liquid Absorption	% by weight (1.0 sp gr)	>190
	By volume	76
Capillary (wicking height, 575 SSU, 70°F). in.	4.0	
Coef. of Friction	0.37	
Vibration Absorption	static load bearing cap/unit area	high
	dynamic stress endurance	high-medium
Noise Reduction Coef. (1")	0.52	

Mechanical Properties

Tensile Strength (min), psi	400
Elongation (100 psi), %	16
Mullen Bursting Strength (1/8"), psi	200
Split Resistance (min.), lb/2" width	22
Hardness Range, Shore A	30-40
Compressibility(10% Deflection), psi	13
Recovery (within 1 min. after 10% deflection)	99
Abrasion Resistance	excellent

Chemical and Environmental Properties

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, °F	- 80 to +200	

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