

AUBURN PRODUCT NEWS

Auburn Manufacturing Company

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SAE F-12 WOOL FELT (Typical Properties)

F-12 Felt is used for anti-squeak strips, anti-vibration pads, dust shields, gaskets, grease retainers, grommets, shock pads, oil retention pads and vibration/noise dampeners. **F-12 Felt** is 85% wool, light in weight, and easy to die-cut into specific shapes. **F-12 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-12 Felt** can be supplied in any thickness between 1/64" and 4.00". **F-12 Felt's** standard color is grey.

Commercial Standard Grade

SAE Number

9R3

NTA Number

F-12

18R3

General Properties

Wool Content (fiber basis), min. %	85
Density (1") , lbs/sq yd	8.84
Standard Thickness Range, in.	1/64" thru 4.00"
Standard Width, in.	72
Color	Grey

Physical Properties

Specific Gravity (%)	1826
Therm. Cond. (70F), btu/hr/sq ft/°F/in.	0.24
Thermal Expansion	0
Air Perm (1/16"), cfm/sq ft/0.5"H ₂ O	75-150
Liquid Absorption	% by weight (1.0 sp gr) By volume
	>350
Capillary (wicking height, 575 SSU, 70°F). in.	88
Coef. of Friction	2.5
Vibration Absorption	0.37
	static load bearing cap/unit area
	dynamic stress endurance
Noise Reduction Coef. (1")	low
	Medium
	0.64

Mechanical Properties

Tensile Strength (min), psi	100
Elongation (100 psi), %	35
Mullen Bursting Strength (1/8"), psi	55
Split Resistance (min.), lb/2" width	3
Hardness Range, Shore A	15-25
Compressibility(10% Deflection), psi	3
Recovery (within 1 min. after 10% deflection)	99
Abrasion Resistance	Fair

Chemical and Environmental Properties

Effect of Sunlight and Oxidation	None
Solvent Resistance and Stability in Oil	Excellent
Acid Resistance	dilute
	concentrated
	Good
	Fair-Good
Alkali Resistance	dilute
	concentrated
	Fair
	Low
Temperature Range, °F	- 80 to +200

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