

AUBURN PRODUCT NEWS

Auburn Manufacturing Company

29 Stack Street, Middletown, CT 06457

Customer Service: (800) 427-5387

Tel: (860) 346-6677 Fax: (860) 346-1334

website: www.auburn-mfg.com ◀ ◀ [Click Link to Learn More](#)

e-mail: info@auburn-mfg.com

SAE F-1 WOOL FELT (Typical Properties)

F-1 Felt is used for bearing seals, bumpers, bushings, dust shields, grease retainers, lubricator wicks, ink pads and precision use gaskets where high grade felt with good appearance and durability are required. **F-1 Felt** is 95% wool, extremely durable, light in weight and easy to die-cut into specific shapes. **F-1 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-1 Felt** can be supplied in any thickness between 1/64" to 4.00". **F-1 Felt's** standard color is white.

Commercial Standard Grade

16R1

SAE Number

F-1

NTA Number

34R1

General Properties

Wool Content (fiber basis), min. %	95
Density (1") , lbs/sq yd	16.00
Standard Thickness Range, in.	1/64" thru 4.00"
Standard Width, in.	60
Color	White

Physical Properties

Specific Gravity (%)	34	
Therm. Cond. (70F), btu/hr/sq ft/°F/in.	0.36	
Thermal Expansion	0	
Air Perm (1/16"), cfm/sq ft/0.5"H ₂ O	10-30	
Liquid Absorption	% by weight (1.0 sp gr)	>175
	by volume	74
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
Noise Reduction Coef. (1")	0.50	

Mechanical Properties

Tensile Strength (min), psi	500
Elongation (100 psi), %	13
Mullen Bursting Strength (1/8"), psi	250
Split Resistance (min.), lb/2" width	33
Hardness Range, Shore A	30-40
Compressibility(10% Deflection), psi	21
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	- 0 to +200	

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