



WOOL FELT – ROLL

Commercial Standard Grade	12R3
SAE Number	F-7
NTA Number	26R3

General Properties

Wool Content (fiber basis), min. %	80
Density (1"), lbs/sq.yd.	12.24
Standard Thickness Range, in.	1/8 to 1
Standard Width, in.	72
Color	grey

Physical Properties

Specific Gravity (%)	26
Therm. Cond. (70F), btu/hr/sq ft/ F/in.	0.30
Thermal Expansion	0
Air Perm (1/16"), cfm/sq ft/ 0.5" H2O	20 - 50
Liquid Absorption, % by weight (1.0 sp gr)	>225
By volume	80
Capillarity (wicking height, 575 SSU, 70F), in.	3.0
Coef of Friction	0.37
Vibration Absorption	
static load bearing cap/unit area	medium
dynamic stress endurance	medium
Noise Reduction Coef (1")	0.58

Mechanical Properties

Tensile Strength (min), psi	250
Elongation (100 psi), %	21
Mullen Bursting Strength (1/8"), psi	125
Split Resistance (min), lb/2" width	12
Hardness Range, Shore A	20 - 30
Compressibility (10% defl), psi	6
Recovery (within 1 min after 10% defl) %	99
Abrasion Resistance	good

Chemical and Environmental Properties

Effect of Sunlight and Oxidation	none
Solvent Resistance and Stability in Oil	excellent
Acid Resistance, dilute	good
concentrated	fair
Alkali Resistance, dilute	fair
Concentrated	low
Temperature Range (degrees F)	-80 - +200

Typical Uses

Dust shields, oil and grease retainers; similar to 12R1 and 12R2 where a lower grade is acceptable.

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