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

<table>
<thead>
<tr>
<th>SAE Number</th>
<th>NTAR Number</th>
<th>16R3</th>
<th>F-3</th>
<th>34R3</th>
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</table>

#### 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/ºF/in.**: 0.35
- **Thermal Expansion**: 0
- **Air Perm (1/16”), cfm/sq ft/0.5”H2O**: 15-35
- **Liquid Absorption**
  - By weight (1.0 sp gr): >190
  - By volume: 76
- **Capillary (wicking height, 575 SSU, 70ºF), 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, ºF**: - 80 to +200

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