Edlon, Inc. SC-2001 is a proprietary ECTFE-based composite coating engineered for resistance to chemical and mechanical damage in corrosive environments.

**Applications**
For use on most metallic surfaces capable of withstanding the 800°F processing temperatures.

- Vessels
- Vessel covers & heads
- Centrifuge baskets
- Protector rings
- Agitators and baffles
- Plating tanks
- Columns
- High purity applications
- Complex shapes
- Outside of glass-lined equipment

Approved for full vacuum and high-speed agitation.

**Preparation of Substrate**
- Open access to all surfaces requiring “pin hole free” coating.
- All corners radiused (1/4” convex and 1/2” concave).
- Welds ground smooth and flush, free of porosity.
- Consult Edlon specification MSC-2003 for specific information on preparing metal surfaces for coating.

**Coating Thickness**
- Standard thickness is a nominal 0.045” on interior and wetted surfaces.
- Coatings thickness up to 0.060” available where abrasion may be a problem.
- Exterior ECTFE coatings nominal 0.010 are superior to paint in resisting corrosion for harsh environments, spills, etc.

**Testing and Repair**
- Coating is repairable in the field; Edlon technicians can make repairs on site or they can provide field repair training.
- Consult Edlon for guidance on spark testing and repair of coated parts.
**Edlon® SC-2001™ ECTFE FLUOROPOLYMER COATING**

### Physical Properties (Material Only)

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td></td>
<td>1.70</td>
</tr>
<tr>
<td>Tensile Strength 73°F</td>
<td>D638</td>
<td>7000 PSI</td>
</tr>
<tr>
<td>Ultimate Elongation 73°F</td>
<td>D638</td>
<td>200%</td>
</tr>
<tr>
<td>Hardness–Rockwell</td>
<td>D785</td>
<td>R 106</td>
</tr>
<tr>
<td>–Shore D</td>
<td>D785</td>
<td>75</td>
</tr>
<tr>
<td>Dielectric Strength (0.040&quot;)</td>
<td></td>
<td>800 volts/mil</td>
</tr>
</tbody>
</table>

### Thermal Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>460°F</td>
</tr>
<tr>
<td>Maximum Operating Temperature</td>
<td>300°F</td>
</tr>
<tr>
<td>Low Temperature Embrittlement</td>
<td>-105°F</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion</td>
<td>5.6 x 10^-5/°F</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>1.1 BTU-in./hr.ft°F</td>
</tr>
</tbody>
</table>

Coating Applied on Carbon Steel or Stainless Steel

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Service Temperature</td>
<td>-25° to 300°F</td>
</tr>
<tr>
<td>Peel Strength</td>
<td>Exceeds tensile strength of coating</td>
</tr>
<tr>
<td>Flammability</td>
<td>Does not support combustion</td>
</tr>
</tbody>
</table>

### Chemical Properties

**Moderate Temperatures**
- (-100° to 150°F)
  - Resistant to most acids, bases and organic solvents

**Higher Temperatures**
- (150° to 300°F)
  - Resistant to selected chemicals

Consult Edlon for recommendations on the suitability of using SC-2001 under specific service conditions.

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