

ConduForm Technical Specifications

Physical Properties:

| Property | Typical Value | Unit | Test Method |
|---|------------------------|---------------------|-----------------------|
| Density (Uncured) | 1075 | kg/m ³ | SAE Inc. Standard 104 |
| | 1.075 | g/cm ³ | |
| | 67.11 | lbs/ft ³ | |
| Volume | 0.019 | m ³ | SAE Inc. Standard 104 |
| | 0.660 | ft ³ | |
| Water Absorption | 22 | % | SAE Inc. Standard 101 |
| Water Permeability | 6.5 x 10 ⁻⁶ | cm/sec | ASTM 5084 (2.6 psi) |
| Electrical Corrosion Resistance Copper | 95 - 100 | % | SAE Inc. Standard 100 |
| Compatibility Copper | Yes | | SAE Inc. Standard 100 |
| Freeze-Thaw Withstand | > 25 (testing ongoing) | years | SAE Inc. Standard 102 |

Electrical Properties:

| Property | Typical Value | Unit | Test Method |
|---------------------|---------------|------|-----------------------|
| Resistance | 0.5 | Ω | SAE Inc. Standard 105 |
| Resistivity | 20 | Ω·cm | SAE Inc. Standard 105 |
| Conductivity | 0.05 | S/cm | SAE Inc. Standard 105 |

Material Properties:

| Property | Typical Value | Unit | Test Method |
|---------------------------------|--|---------|-------------|
| Physical State (Uncured) | Dark Blue Slurry (ConduForm) Grey Powder (Curing Agent) | | |
| Physical State (Cured) | Black Solid | | |
| Odor | None | | |
| Working Time | 10 - 30 | minutes | |
| Setting Time | 3 | hours | |
| Cure Time (90% cure) | 4 | weeks | |
| Cure Time (100% cure) | 9 - 10 | weeks | |

Updated: June 26, 2018