

## Resin Fillers

Particle Size Distribution (% Retained):

| US Mesh (ASTM No.) | Microns           | MinSil 20 | MinSil 40 |
|--------------------|-------------------|-----------|-----------|
| 100                | 150               | 0         | <0.1      |
| 140                | 106               | <0.05     | <0.5      |
| 200                | 75                | <1        | <10       |
| 325                | 45                | <3        | 15-30     |
| Microtrac PM 50%   | µm                | 9-16      | 19-27     |
| BET Surface Area   | m <sup>2</sup> /g | <3        | 1.3-2.1   |

Magnetics:

Buck Analyzer **<20** ppm

Electrical Properties:

Conductivity **<5** µmhos

Physical Properties:

Apparent Specific Gravity **2.18 – 2.20** g/cc

Thermal Properties:

LTE Coefficient (20 - 700°C) **0.5 – 0.6** x 10<sup>-6</sup>/°C

Chemical Analysis (%):

|                                | (Typical values)    |
|--------------------------------|---------------------|
| SiO <sub>2</sub>               | <b>&gt;99.7</b> %   |
| Al <sub>2</sub> O <sub>3</sub> | <b>&lt;1700</b> ppm |
| Fe <sub>2</sub> O <sub>3</sub> | <b>&lt;350</b> ppm  |
| TiO <sub>2</sub>               | <b>&lt;250</b> ppm  |
| K <sub>2</sub> O               | <b>&lt;120</b> ppm  |
| CaO                            | <b>&lt;75</b> ppm   |
| Na <sub>2</sub> O              | <b>&lt;50</b> ppm   |
| LOI @ 1000°C                   | <b>&lt;0.5</b> %    |

Packaging: 55 pound (25 kg) paper bags or 2,200 lbs (1,000 kg) tote sacks

Labeling: Product Name, Lot Number, Total Weight (2,200 lbs (1,000 kg) per pallet)

