



Thermshield™ Soft Graphite Felt

Material Grade: TSF-11G

Typical Physical Properties

| | SI Units | English Units |
|---|------------------------|-------------------------------------|
| Density | 0.09 g/cm ³ | 5.62 lb/ft ³ |
| Thermal Conductivity (Argon) 600°C (1112°F) ⊥ | 0.31 W/mK | 2.15 BTU in/hr ft ² (°F) |
| Thermal Conductivity (Argon) 1200°C (2192°F) ⊥ | 1.0 W/mK | 6.93 BTU in/hr ft ² (°F) |
| Electrical Resistivity | 3 Ωcm | 1.20 Ωin |
| Specific Heat (20°C) | 0.80 J/g-K | 0.19 BTU/lb-F |
| Specific Heat (1900°C) | 5.6 J/g-K | 1.34 BTU/lb-F |
| Process Temperature | 2200°C | 3992°F |
| Carbon Content | 99% | |
| Material Precursor | Rayon Felt | |

Dimensional Data

| Thickness Designation | Nominal Thickness ¹ | | Minimum Width ² | | Maximum Width | | Typical Roll Length | | Typical Roll Weight ³ | |
|-----------------------|--------------------------------|--------|----------------------------|--------|---------------|--------|---------------------|------|----------------------------------|-----|
| | mm | Inches | mm | Inches | mm | Inches | Meters | Feet | kg | lbs |
| ½" | 11 | 0.43 | 1016 | 40 | 1067 | 42 | 18 | 59 | 15 | 33 |

Notes:

- 1) Thickness may vary +/- 1.5mm (0.060") from the nominal.
- 2) To purchase rolls with guaranteed widths in excess of 40" (1016mm) please discuss with your sales representative.
- 3) The price of individual rolls is calculated based on the weight of the actual roll shipped multiplied by the quoted price/lb.