



Rayon-Based Carbon and Graphite Felt

Quality, Service, and Consistency

Description: Rayon-based carbon and graphite felts offer quality, uniform and consistent insulating materials for many critical temperature control applications. These materials are effective for use in both resistant and induction heated furnaces used in many metallurgical and semiconductor related processes. These felts can adequately adapt to many furnace sizes and shapes. The felts can be used in unique controlled cooldown applications as well.

Standard Sizes (nominal):

Rayon-based Carbon and Graphite Felt typically come in 0.125", 0.25" or 0.50" thicknesses, 48" widths, and in lengths of up to 100 feet.

| Properties | Units | Graphite Felt | Carbon Felt |
|------------------------|--------|---------------|--------------|
| Density | g/cc | 0.11 | 0.09 |
| Carbon Content | % | 99.95 | 99 |
| Specific Heat | J/g/°C | 0.71 | 0.71 |
| Ash Content | ppm | 500 | 2300 |
| Thermal Conductivity | W/mK | 0.45 @1500°C | 0.25 @1000°C |
| Processing Temperature | °C | ≥2000 | ≥1200 |

Rayon-Based Carbon-Graphite Felt Rev.0

NOTE: The above data should be regarded as general information, not guaranteed specification limits.

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