Rayon Carbon & Graphite Felt

What is Rayon Felt?
Rayon carbon and graphite felt are premium refractory insulation materials designed and manufactured for high-temperature vacuum and inert gas furnaces, among other applications. Material is rated for temperatures up to 5432°F (3000°C) in vacuum or inert atmospheres.

Material Grades
Our rayon felt is available in different grades depending on application. Our rayon carbon grade is pre-fired at 3452°F (1900°C), whereas our rayon graphite grade is pre-fired at 4532°F (2500°C). Pre-firing or heat-treating the material after production promotes consistent insulation performance, higher purity, and reduced ash content. Felt grades can be purified to less than 20 ppm.

Material Benefits
• Soft, flexible material that is easy to cut & install
• Minimize energy consumption and cost
• Maximize furnace performance and longevity
• High purity and high thermal resistance
• Low ash & sulphur content
• 100% rayon-based fiber precursor
• Carbon Content ≥ 99%
• Low density, shrinkage, & thermal mass
• Low gas evolution & higher gas oxidation resistance

Applications
• Furnace insulation & parts
• Heat shields & sinks
• Backing strips for soldering & welding
• Cathode in flow battery applications
• Reaction surface for other electro-chemical processes
• Glass blower, plumber pads & wicks in ultralight stoves
• Thermal insulators and automotive exhaust linings

Standard Sizing
Materials are stocked in the following sizes. If you need a custom size, please contact our office for a custom quote.