

Spectral Hemispherical Emittance

3M™ Nextel™ Woven Fabric 312

The emissivity of individual filaments of 3M Nextel Ceramic Fiber 312 could not be determined. However, the fibers in yarn form were woven into an eight ounce/square yard plain weave fabric. A fabric made from standard 3M Nextel Ceramic Fiber 312 was tested. The following data was obtained at

room temperature using a Beckman DK1A and Willie Reflectometers covering wavelengths between 0.3 μ and 15 μ . The emittance of other fabrics made from 3M Nextel Ceramic Fibers 312 may vary due to differences in weave pattern and yarn construction.

