

# Alumina/Silica/Boria Fabric Coil (Al<sub>2</sub>O<sub>3</sub> 62/SiO<sub>2</sub> 24/B<sub>2</sub>O<sub>3</sub> 14)

**Formula:** Al<sub>2</sub>O<sub>3</sub> 62/SiO<sub>2</sub> 24/B<sub>2</sub>O<sub>3</sub> 14

**Thickness:** 0.41mm

**Coil Width:** 25.4mm

**Length:** 0.5m

**Fabric Weight:** 400g/m<sup>2</sup>

**Weave:** Plain

**Warp Yarn:** 200

**Weft Yarn:** 200

**UOM Code:** 526-004-00

**SKU:** 1000024963-group

**Product Code:** AL62-FC-000141

## Material Properties for Ceramics

### Chemical Resistance

Element	Value
Acids - concentrated	Fair
Acids - dilute	Good
Alkalis	Poor-Fair
Metals	Good

### Electrical Properties

Element	Value
Dielectric constant	5.2@9.4GHz

### Physical Properties

Element	Value
Refractive index	1.57
Apparent porosity( % )	0
Water absorption - saturation( % )	0
Density( gcm <sup>3</sup> )	2.7

## Thermal Properties

Element	Value
Sublimation point( C )	1800
Upper continuous use temperature( C )	1200-1400
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	1100@25°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	3@20-1000°C

## Mechanical Properties

Element	Value
Tensile modulus( GPa )	140
Tensile strength( MPa )	1700