

# Specification Sheet

Aluminium Oxide Ceramic Tiles  
(Al<sub>2</sub>O<sub>3</sub>, Purity: 99.5%, Size: 100 x 100 x 4.5mm)  
Stock No: NS6130-10-1260, CAS: 1344-28-1

<b>Product</b>	:	<b>Aluminium Oxide Ceramic Tiles</b>
Stock No.	:	NS6130-10-1260
CAS	:	1344-28-1
Purity	:	>99.5%
Length	:	100 mm
Width	:	100 mm
Thickness	:	4.5 mm
Density	:	3.85~3.9 g/cm <sup>3</sup>
Compressive Strength	:	2600 MPa
Porosity	:	< 0.5%
Hardness	:	1440 Kg/mm <sup>2</sup>
Poisson	:	0.22
Fracture Toughness (KIC)	:	>4 to 5 Mpa/m <sup>1/2</sup>
Thermal Expansion	:	8.2 10 <sup>-6</sup> /°C
Thermal Conductivity	:	30.4 W/m K
Max Service Temperature	:	1800 °C
Permittivity	:	9.7 1MHz
Dielectric Strength	:	8.7 Ac-kv/mm
Bulk Modulus	:	228 Gpa
Dissipation Factor	:	0.0002 1KHz
Thermal Shock Resistance	:	200 °C
Volume Resistivity	:	>10 <sup>14</sup> Ω-cm
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

**Note:** Product Specification are subject to amendment and may change over time

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