

Metal-Class Thermal Conductivity with Thermalnite® Reinforcement

High-Strength AlN Substrates

The Highest Mechanical Strength Ever Achieved in AlN

Ceramic Product



Size	□ 4.5inch
Thickness	0.2-1.0mm
Thermal Conductivity	170 · 200W/m · K 230W/m · K (Under Development)

Key Features

High Thermal Conductivity

High Mechanical Strength

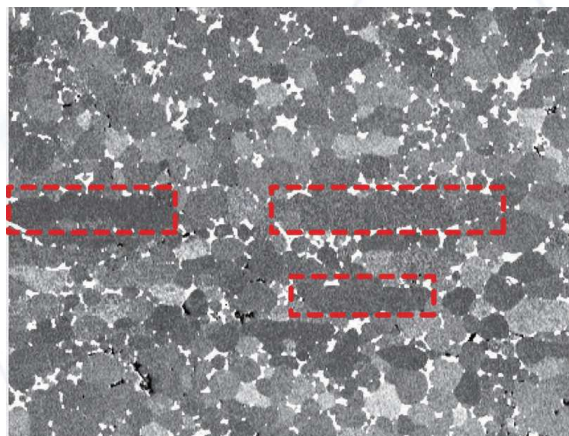
Fracture Toughness:
2x Conventional AlN

Benefits

01 Enhanced Heat Dissipation
Enables Higher Power Output
and Compact Design

02 Suppression of
Micro-Cracks

〈Fiber Reinforcement with Thermalnite®〉



Applications

- LED / LD Modules(Headlights, UV-C LEDs, Optical Transceivers, etc.)
- Power Modules(Automotive Inverters, Railway Motor Drives, Machine Tools, Solar / Wind Power, UPS)