

# Aluminium Nitirde

## FUJI AIN Series

Aluminium Nitiride (AIN) is the highly functionalized materials composed of aluminium and nitrogen. AIN possess high heat conductivity and high electrical resistivity (insulated material), and its thermal expansion value is closed to that of silicon. Therefore, it is often applied as materials for heat release (dissipation) purpose. AIN also has high chemical resistivity. Recently, they have been intensively utilized for heat dissipation purpose for environmentally friendly products such as LED.

Application : power transistor module substrate, LED mounting board, IC package, heat dissipation substrate, semiconductor substrate, circuit board, heat dissipation grease, heat dissipation pad, coating material for the metal, sealant for semiconductor, raw material or additive for various type of ceramic such as phosphor etc...

High heat conductivity (seven times higher than aluminium oxide) :  
180-200 W/mK

Highly insulated material, high electrical resistivity :  $>10^{14}$   $\Omega$ /cm

We are supplying as powder at the moment. Nano size particle dispersion, slurry, paste (particle size control, solvent as water, or various type of organic solvent), it is under development.

Please consult with us anything anytime including technical detail.

Thank you in advance.