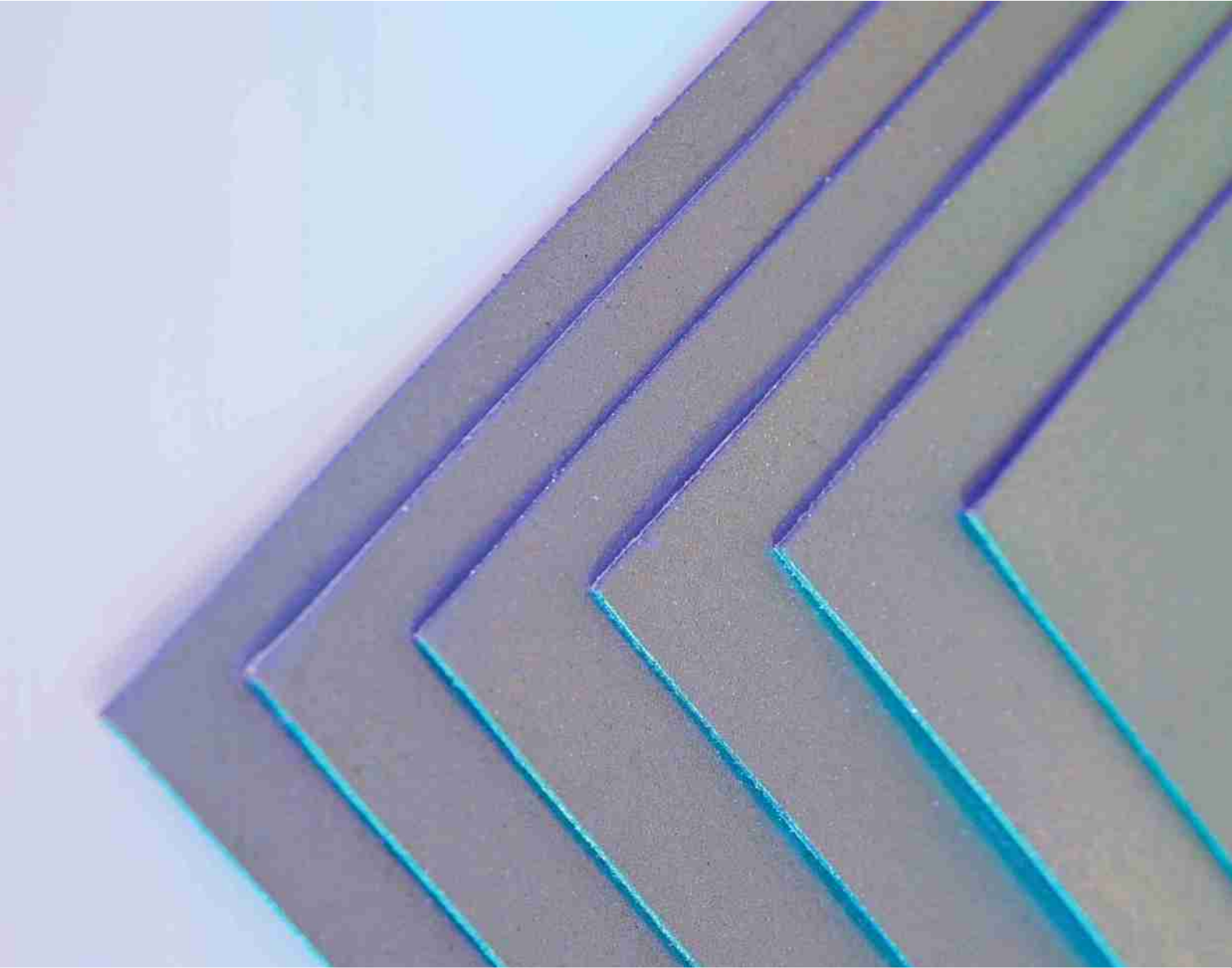


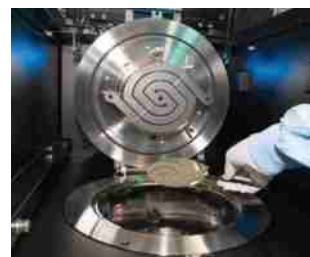
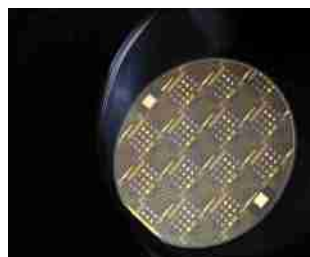


**GlobalTop Technology Inc.**  
**Applied Materials BU**



# **Aluminum Nitride SS Series**

## **Product Datasheet**



# SS Series

Aluminum Nitride Powder

## SS Series: High purity; De-agglomerated; Sharp size distribution

SS series ALN powder contain very low oxygen & carbon content, and sharp particle size distribution. This powder is specifically designed for sintering applications.

For example, its use in sintered PCB ceramic substrates improves overall thermal conductivity as well as heat dissipation, which is ideal for high power consumption devices.

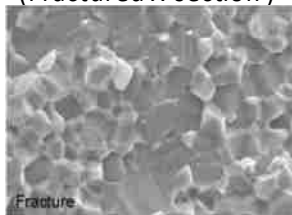
### Features

- Low metal impurities
- Low oxygen content
- Sharp size distribution
- Good Sinterability

### Product Selector

Part Number	Size Distribution (unit : $\mu\text{m}$ )			ICP Analysis (Unit: ppm)				O (%)
	D10	D50	D90	Ca	Fe	Si	Pb	
AIN020SS	1	2	4	<100	<150	<200	<10	<1.5

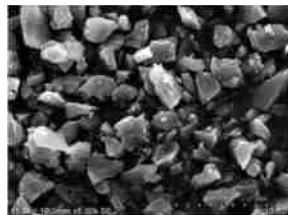
Sintered AIN SEM (X3000)  
(Fractured X-section)



2 $\mu\text{m}$  AIN SEM (X3000)



2 $\mu\text{m}$  AIN SEM (X5000)



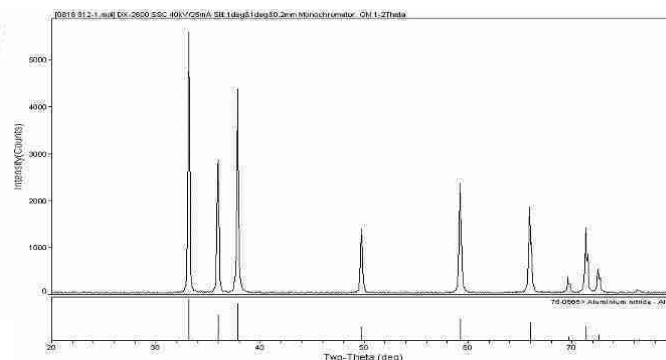
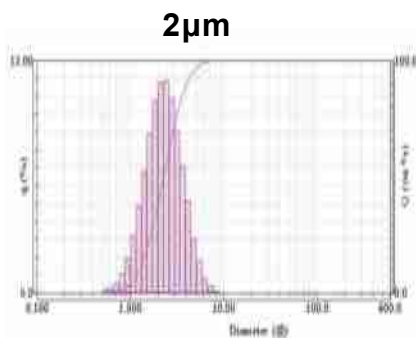
### Sintering Guideline

To reach thermal conductivity of >180 w/mk we recommend :

- 4.5% to 6%  $\text{Y}_2\text{O}_3$  Sintering Additive
- Sintering Temperature/time : 1840°C / 3hours
- Temperature profile

For further details, please contact us.

### XRD Analysis



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