

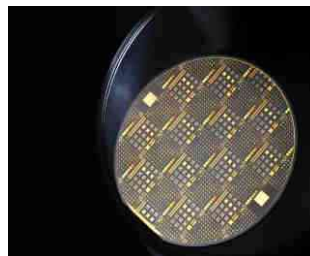


GlobalTop Technology Inc.
Applied Materials BU



Aluminum Nitride AF Series

Product Datasheet



AF Series

Aluminium Nitride Powder

AF SERIES : Low Iron , High Purity, No Surface Coating

AF series ALN powder has reduced impurities especially FE (below 200 ppm), and is without any surface coating.

AF Series is suitable for use in fillers in compound material and ceramic substrate applications. AF Series is available in particle sizes of 2, 5, 10, 20, 30, 50 and 80 μm . Customized powder sizes are available on request.

Features

- Sharp size distribution
- Good dispersion
- Low metal impurities
- Low oxygen contents
- Diversity in size (2 μm - 80 μm)
- Customization supported

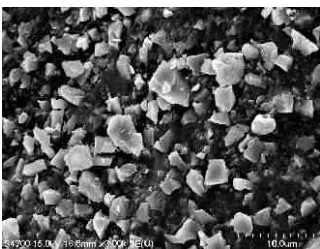
Product Selector

Part Number	Size Distribution (unit : μm)			ICP Analysis (Unit: ppm)				O (%)
	D10	D50	D90	Ca	Fe	Si	Pb	
AIN020AF	1	2	4	<100	<200	<200	<10	<1.50
AIN050AF	2.5	5	10	<100	<200	<200	<10	<1.00
AIN100AF	4.5	10	25	<100	<200	<200	<10	<0.75
AIN200AF	6	20	60	<100	<200	<200	<10	<0.50
AIN300AF	9	30	82	<100	<200	<200	<10	<0.50
AIN500AF	Available on request							
AIN800AF	Available on request							

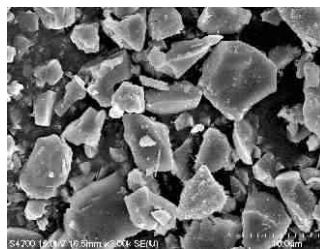
Applications

- Thermal filler for Thermal grease, pad, tape, PCM, etc.
- Thermal filler for dielectrics of FCCL, MCPCB
- Thermal additives for EMC (Epoxy Molding Compound)
- TCP filler for LED bulb heat sink

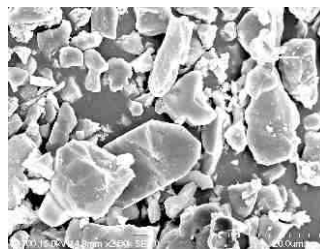
2 μm AIN SEM (X3000)



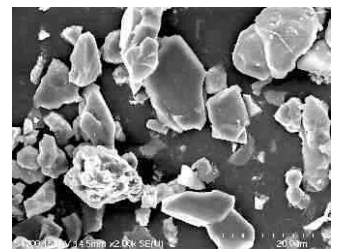
5 μm AIN SEM (X3000)



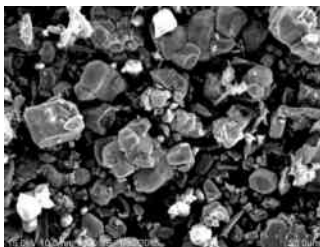
10 μm AIN SEM (X2000)



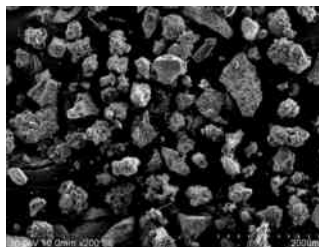
20 μm AIN SEM (X2000)



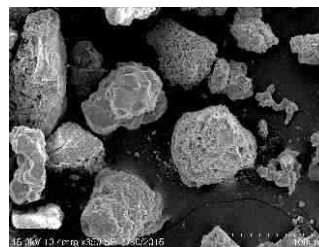
30 μm AIN SEM (X800)

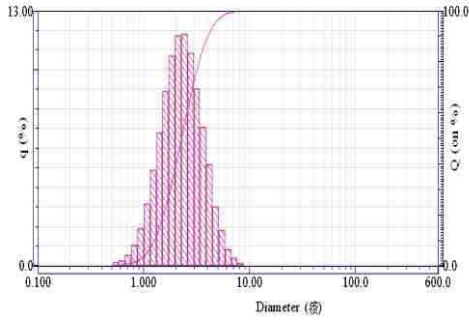
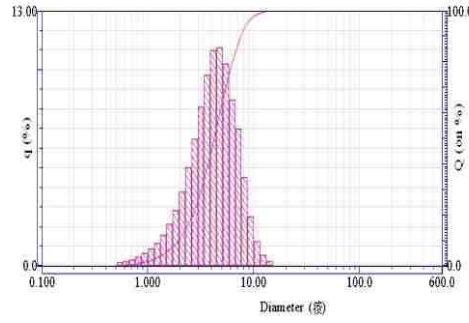
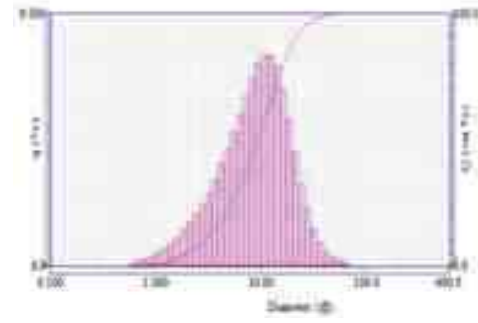
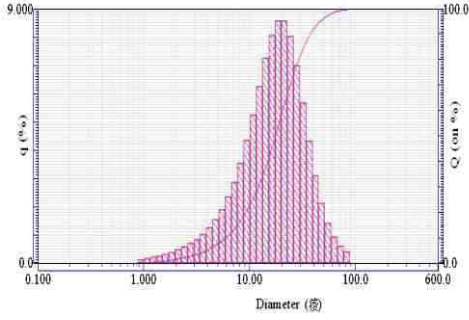
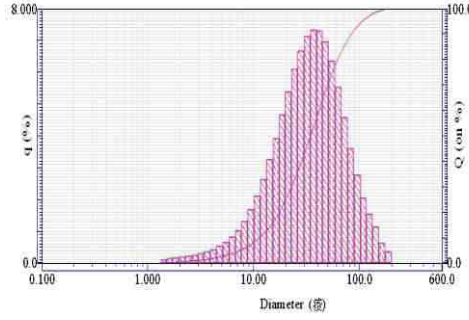
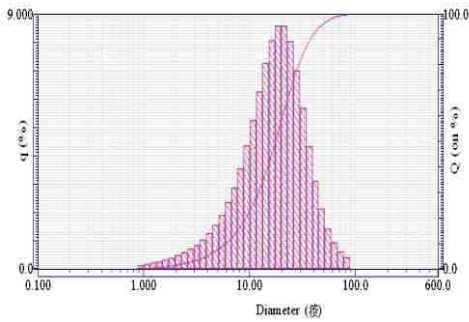
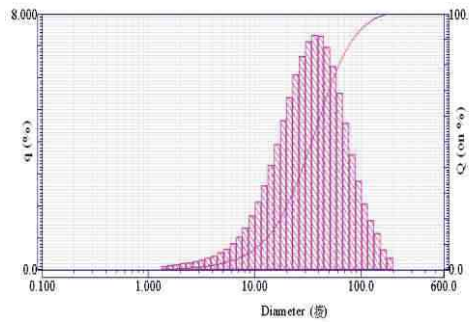
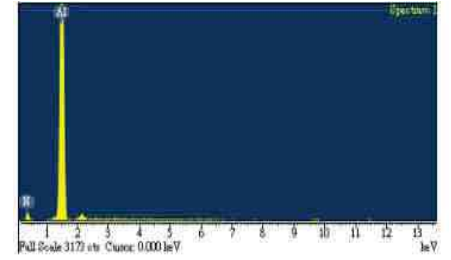


50 μm AIN SEM (X200)

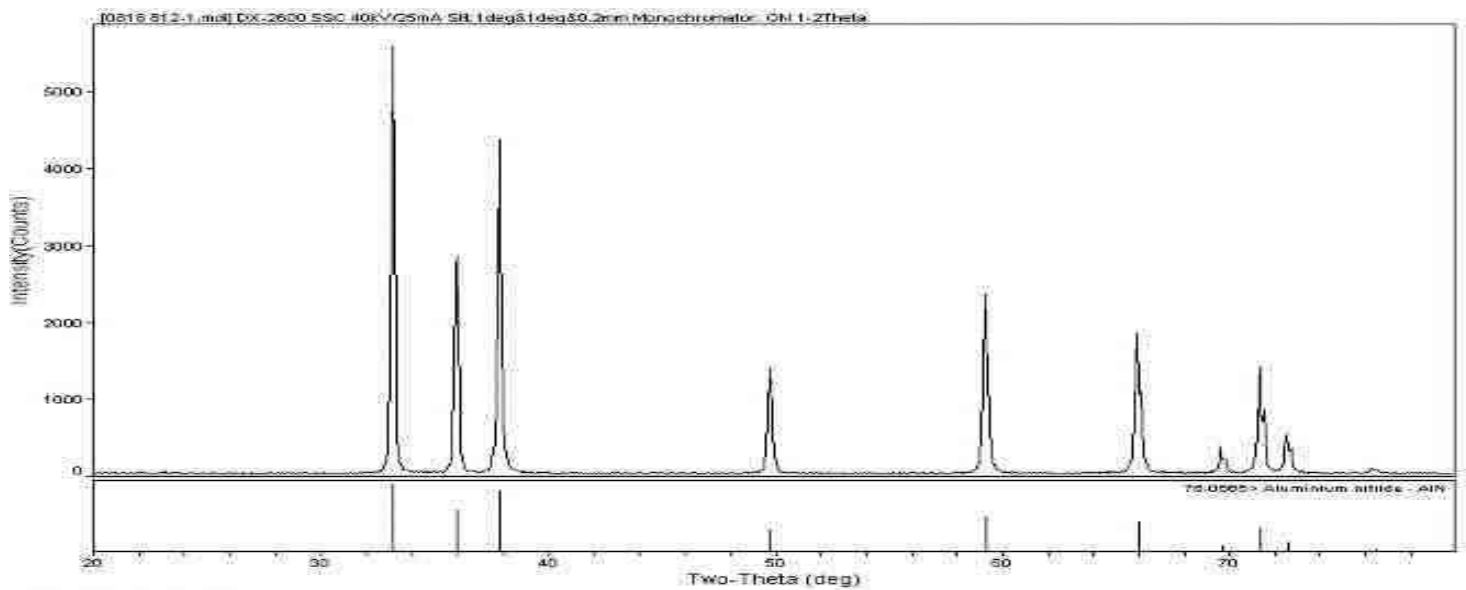


80 μm AIN SEM (X300)



2μm**5μm****10μm****20μm****30μm****50μm****80μm****EDS Analysis**

Element	Weight %	Atomic %
Nitrogen	34.84	50.73
Aluminum	65.16	49.27
Total	100.00	

XRD Analysis

GlobalTop Technology Inc.
 No. 16, Nan-Ke 9th Road,
 Science-based Industrial Park,
 Tainan 741, Taiwan

Tel : +886-6-5051268
 Fax : +886-6-5053381

materials@gtop-tech.com
 www.gtop-tech-materials.com

