



DATA SHEET  
NYACOL® AL25, AL25-HP

NYACOL® Colloidal Alumina  
High Temperature Coating / Binder

NYACOL® AL25, AL25-HP

NYACOL® AL25 and AL25-HP have been developed utilizing new innovative technology for colloidal alumina. AL25 and AL25-HP are colloidal dispersions of boehmite with dispersed sizes of 70–80 nm at 20% Al<sub>2</sub>O<sub>3</sub> content. Typically AL25 will have up to 500 ppm Na content and AL25-HP has less than 100 ppm Na. The sols are essentially chloride free and other impurities are low.

These products are used as binders for high temperature refractories and ceramics, catalyst wash-coats, catalyst formulation, precision polishing and paper coating.

Figure 1 shows a typical particle size curve using a Malvern Zetasizer. Figure 2 shows the typical XRD pattern for the boehmite after drying at 105°C.

**TYPICAL PROPERTIES**

	AL25	AL25-HP
(AlO(OH)), wt%	23.5	23.5
Aluminum content expressed as Al <sub>2</sub> O <sub>3</sub> , wt%	20	20
Particle Size, nm	70 - 80	70 - 80
Particle Charge	+	+
pH	4.0	4.0
Specific Gravity	1.19	1.19
Viscosity, cP	10	10
Sodium, ppm	<500	<100

**PACKAGING**

NYACOL® AL25 and AL25-HP are available in 55-gallon plastic drums or stainless steel tank trucks. Customized packaging is available.

**STORAGE**

NYACOL® AL25 and AL25-HP should not be subjected to temperatures of 32°F or below to avoid freezing.

**SAFETY**

NYACOL® AL25 and AL25-HP are acidic and may cause eye and skin irritation. Users should observe precautions printed on the package label. A Material Safety Data Sheet for this product will be supplied on request.

FIGURE 1: TYPICAL AL25 PSD

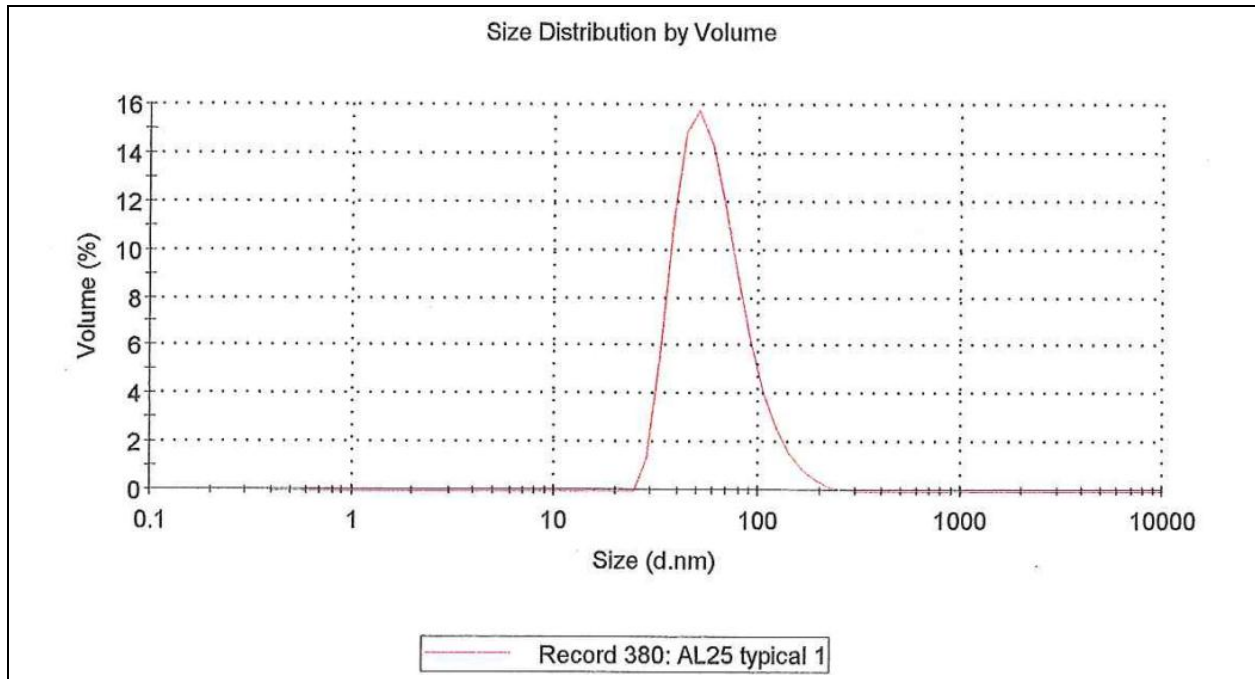
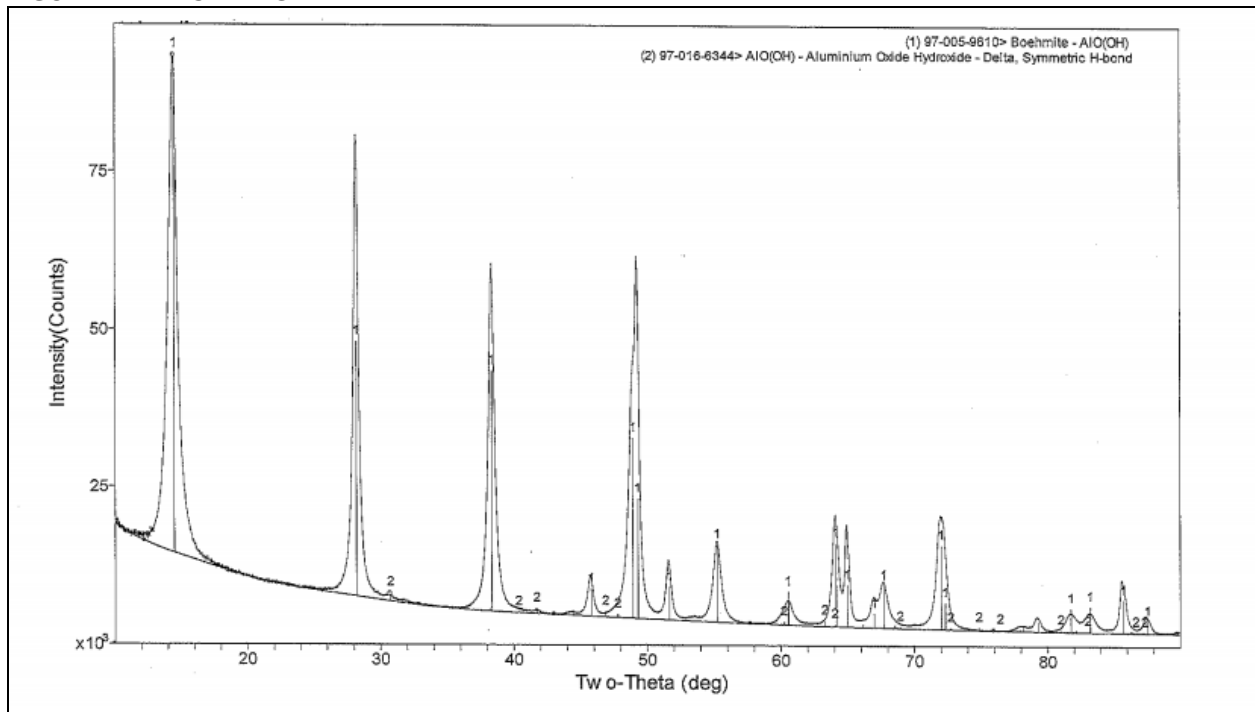


FIGURE 2: AL25 TYPICAL XRD





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**FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER**

Nyacol Nano Technologies, Inc.  
Megunko Road  
P.O. Box 349  
Ashland, MA 01721-0349 U.S.A.

Telephone: 508-881-2220  
Toll-Free: 800-438-7657  
Fax: 508-881-1855  
Internet: [www.nyacol.com](http://www.nyacol.com)

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P.O. Box 349, Ashland, MA 01721-0349 USA Tel.: 508-881-2220