

## NYACOL® Ce80/10

NYACOL® Ce80/10 is a colloidal cerium oxide being offered on a developmental basis. The cerium oxide is well crystallized with a mean size of 70 – 80 nm by Malvern Zetasizer. Figure 1 shows the XRD of the product after drying. Ce80/10 can be used as an abrasive for STI and ILD CMP processes, and for precision polishing of glass and quartz and displays.

In catalysts, Ce80/10 can be used as an additive in environmental catalysts. Ce80/10 demonstrates excellent retention of surface area over a wide temperature range.

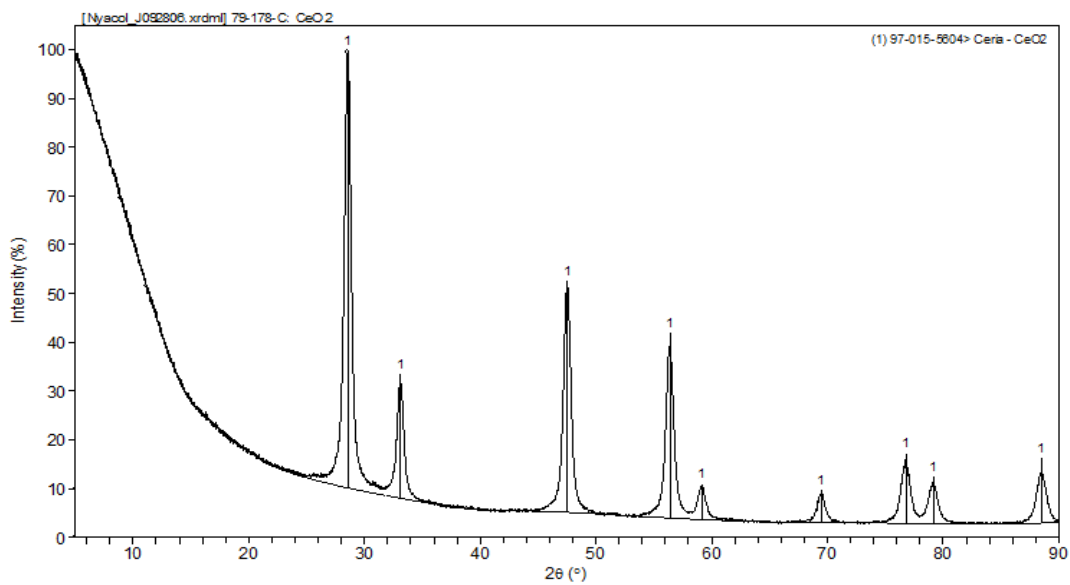
### TYPICAL PROPERTIES

CeO <sub>2</sub> , wt. %:	10
Particle Size, nm:	60 – 80
BET Specific Surface Area:	40 – 60 m <sup>2</sup> /g
Zeta Potential:	+44
pH:	3 – 4
Specific Gravity:	1.1
Viscosity:	<15

### TABLE I – SURFACE AREA VS. TEMPERATURE

Temperature, °C	Surface Area, m <sup>2</sup> /g
105	58
400	54
600	52
700	32

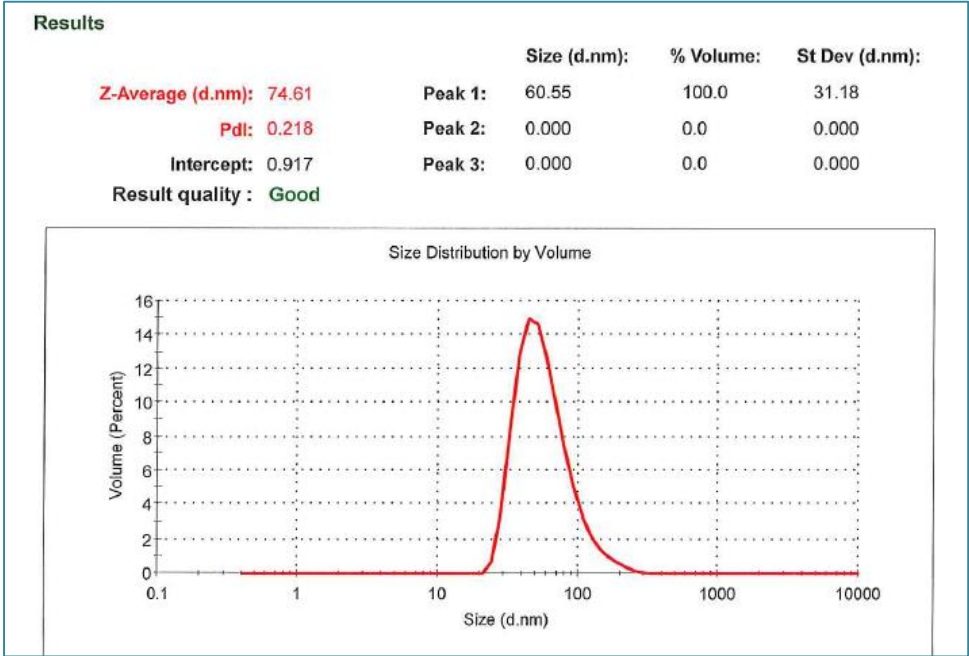
Figure 1 – XRD Analysis





Data Sheet  
 NYACOL® Ce80/10

Figure 2 – Size Distribution by Volume



**PACKAGING**

NYACOL Ce80/10 is available in 5 or 55-gallon plastic drums. Packaging in smaller containers is available upon request.

**STORAGE**

NYACOL Ce80/10 should not be subjected to temperatures of 32°F or below, to avoid freezing.

**SAFETY**

Users should observe precautions printed on the package label. A Safety Data Sheet for this product will be supplied upon request.

**FOR ADDITIONAL INFORMATION TO PLACE AN ORDER**

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