



DATA SHEET
NYACOL® Y₂O₃

COLLOIDAL PERFORMANCE MATERIALS

NYACOL® Y₂O₃

Nyacol Nano Technologies, Inc. offers colloidal yttrium oxide for use as a sintering aid for silicon nitride and other ceramics, as a stabilizer for zirconia ceramics, for producing a transformation toughened alumina ceramic, as a high temperature binder for ceramics and fibers, and as a core wash for titanium investment casting.

TYPICAL PROPERTIES

Y ₂ O ₃ , wt. %	14
Particle Size, nm	10
Particle Charge	Positive
pH	7.0
Specific Gravity	1.17
Viscosity, cP	10
Counter Ion, mol/mol	2.5 Acetate
Carrier	Water

PACKAGING

NYACOL® Y₂O₃ is available in 5-gallon plastic pails and 55-gallon plastic drums. Packaging in smaller containers or alternate materials of construction is available upon request.

STORAGE

NYACOL® Y₂O₃ should not be subjected to temperatures of 0°C (32°F) or below to avoid freezing. Shelf life is at least six months at 5°C (41°F) and two to three months at 25°C (77° F).

SAFETY

NYACOL® Y₂O₃ may cause eye and skin irritation. Users should observe the precautions printed on the package label. A Material Safety Data Sheet (MSDS) for this product will be supplied on request.

TO ORDER MATERIAL OR FOR INFORMATION

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

Telephone: 508-881-2220 Local Area
800-438-7657 U.S. Toll-Free
Fax: 508-881-1855 24-Hour
Internet: www.nyacol.com

Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, user should determine the suitability of the product for the intended use and user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without a license. 08/2012

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