GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

TECHNICAL DATA SHEET
Submicron High Purity Aluminum Oxide

Typical Chemistry

	CER-LAB	CER-LAB-T
Aluminum Oxide (Al_2O_3)	≥ 99.95 %	≥ 99.95 %
Iron Oxide (Fe_2O_2)	≤ 0.01 %	≤ 0.01 %
Silicon Dioxide (SiO_2)	≤ 0.02 %	≤ 0.02 %
Sodium Oxide (Na_2O)	≤ 0.02 %	≤ 0.02 %
Calcium Oxide (CaO)	≤ 0.02 %	≤ 0.02 %
Magnesium Oxide (MgO)	≤ 0.005 %	≤ 0.005 %
Moisture (H_2O)	≤ 0.2 %	≤ 0.2 %

Physical Characteristics

	CER-LAB	CER-LAB-T
Crystal Form:	Alpha-Alumina	Alpha-Alumina
pH:	7 - 9	7 - 9
Specific Surface Area (BET):	5 - 7	4 - 5
d10	≥ 0.30	≥ 0.30
d50	0.6 - 1.0	0.6 - 1.0
d90	≤ 1.60	≤ 1.60

Description:

GNPGraystar's CER-LAB and CER-LAB-T submicron powders are high purity calcined aluminum oxide powders designed to excel across a broad range of applications.

These powders offer a high degree of chemical inertness, high melting point, very low electrical conductivity, and excellent hardness.

CER-LAB-T has a higher purity, lower surface area, and a denser crystal structure than the standard CER-LAB product which allows for a lower degree of water absorption.

Applications:

GNPGraystar's CER-LAB and CER-LAB-T submicron powders are used for: thermal management, polishing, technical ceramics, lithium ion diaphragms, and other various applications.

info@GNPGraystar.com

Rev. 02/2020

Northern Office
37 John Glenn Dr.
Amherst, NY 14228
716.759.6600

www.GNPGraystar.com

Southern Office
9 Simmonsville Rd.
Bluffton, SC 29910
843.815.5600