



# GNP Graystar

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 <sub>2</sub> O <sub>3</sub> )	≥ 99.95 %	≥ 99.95 %
Iron Oxide (Fe <sub>2</sub> O <sub>2</sub> )	≤ 0.01 %	≤ 0.01 %
Silicon Dioxide (SiO <sub>2</sub> )	≤ 0.02 %	≤ 0.02 %
Sodium Oxide (Na <sub>2</sub> O)	≤ 0.02 %	≤ 0.02 %
Calcium Oxide (CaO)	≤ 0.02 %	≤ 0.02 %
Magnesium Oxide (MgO)	≤ 0.005 %	≤ 0.005 %
Moisture (H <sub>2</sub> O)	≤ 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:

GNP Graystar'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:

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

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