



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

Calcined Yttrium Oxide, Micronized

Typical Chemistry

TREO* - %	≥ 99.0
Yttrium Oxide (Y ₂ O ₃)/TREO* - %	≥ 99.0
Aluminum Oxide (Al ₂ O ₃) - ppm	≤ 100
Calcium Oxide (CaO) - ppm	≤ 50
Iron Oxide (Fe ₂ O ₃) - ppm	≤ 20
Sodium Dioxide (Na ₂ O) - ppm	≤ 50
Chlorine (Cl) - ppm	≤ 100
LOI (1000°C/2 hrs - %	≤ 1.0

* TREO - Total Rare Earth Oxides

Typical Physical Characteristics

PSD (d10) - microns	≤ 1
PSD (d50) - microns	≤ 2
PSD (d90) - microns	≤ 7

Description:

GNP Graystar's Micronized Yttrium Oxide is a white to off-white powder, insoluble in water, but soluble in acids. It is typically used in the manufacturing of mono and polycrystalline ferrite materials in the electronic industry, for the synthesis of gemstones, as a glass additive to increase the refractive index and reduce light dispersion in glass, such as camera lenses, for optical systems and lenses for extreme temperatures, for refractory and conductive ceramics, oxygen sensors for emission control, for the production of ceramic pigments, as well as pole impregnation in batteries, lasers, and accumulators.

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