



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

Calcined Yttrium Oxide
Submicron, High BET Grade

Typical Chemistry

	Min.	Max.
TREO* - %	95.9	
LOI (1000°C/2 hrs - %		4.0
Yttrium Oxide (Y ₂ O ₃)/ TREO* - %	99.99	
Aluminum (Al) - ppm		80
Calcium (Ca) - ppm		50
Iron (Fe) - ppm		15
Potassium (K) - ppm		40
Sodium (Na) - ppm		50
Silicon (Si) - ppm		100

* TREO - Total Rare Earth Oxides

Typical Physical Characteristics

	Min.	Max.
PSD (d50) - microns	0.5	1.0
Surface Area (BET) - m ² /g	6.0	15.0

Description:

GNP Graystar's Micronized Yttrium Oxide is a 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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