

Indium Corp. Germanium Corporation® GeO2 Germanium Dioxide

Category: Ceramic, Oxide

Material Notes:

Germanium dioxide is a white powder that is manufactured in both crystalline and amorphous forms. Germanium dioxide's refractive index (1.7) and its optical dispersion properties are useful for making wide-angle lenses and optical microscope objective lenses. It is transparent to infrared light. Germanium dioxide is also used as a catalyst in the production of polyethylene terephthalate (PET) resin and in the production of other germanium compounds, as well as some phosphors and semiconductor materials. Characteristics: Synonyms:

Germanium (IV) Oxide, GeO2CAS Number: 1310-53-8EC Number: 215-180-8RTECS: LY5240000Purity: 99.999% Appearance/Form: White powderCrystal structure: Hexagonal Solubility: Soluble in Alkalis. Slightly Soluble in Acids. Slightly soluble in Water. Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Germanium-Corporation-GeO2-Germanium-Dioxide.php

Physical Properties	Metric	English	Comments
Bulk Density	1.30 - 1.70 g/cc	0.0470 - 0.0614 lb/in³	apparent
Loss On Ignition	<= 3.0 %	<= 3.0 %	
Molecular Weight	104.61 g/mol	104.61 g/mol	
Maximum Moisture Content	<= 1.0	<= 1.0	Typical, LOD
	<= 2.0	<= 2.0	LOD

Thermal Properties	Metric	English	Comments
Melting Point	1115 °C	2039 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.70	1.70	
IR Transmittance	90 %	90 %	transparent; thickness not quantified

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<= 0.00010 %	<= 0.00010 %	Typical
<= 0.00030 %	<= 0.00030 %	Max
<= 0.00010 %	<= 0.00010 %	Typical
<= 0.00030 %	<= 0.00030 %	Max
<= 0.00010 %	<= 0.00010 %	Typical
	<= 0.00010 % <= 0.00030 %	<= 0.00010 % <= 0.00010 % <= 0.00030 % <= 0.00030 %



Component Elements Properties	= 0 00030 % Metric	= 0.00030 % English	Comments
Germanium, Ge	69.434 %	69.434 %	Theoretical
Iron, Fe	<= 0.00020 %	<= 0.00020 %	Typical
	<= 0.00030 %	<= 0.00030 %	Max
Nickel, Ni	<= 0.00010 %	<= 0.00010 %	Typical
	<= 0.00030 %	<= 0.00030 %	Мах
Trace Metals	<= 0.00030 %	<= 0.00030 %	Total combined metals, typical
	<= 0.0010 %	<= 0.0010 %	Total combined metals, max
Zinc, Zn	<= 0.00010 %	<= 0.00010 %	Typical
	<= 0.00030 %	<= 0.00030 %	Max

Chemical Properties	Metric	English	Comments	
Ionic Impurities - CI (Chloride)	<= 500 ppm	<= 500 ppm		

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