Indium Corp. In2O3 Type B Indium Oxide, Fine Powder

Category : Ceramic , Oxide

Material Notes:

Indium Sesquioxide is a yellow colored powder. It is a stable ceramic-like material, insoluble in water and volatizes at 850°C. Indium sesquioxide is a n-type semiconductor and as such is used as a resistive element in integrated circuits and to form heterojunctions with p-InP, n-GaAs and other semiconductors. Other uses include glass coloring, in alkaline batteries to suppress gassing and as an anti-arcing additive in high current electrical switches and contactors.When doped with tin dioxide, thin films of indium-tin oxide (ITO) function as a transparent electrical conductor and can reflect a portion of the infrared spectrum. The major use of indium oxide is in the manufacture of ITO sputtering targets for thin film coating.Type A - Fine: The primary particles range from 0.1 to 1.0 microns in diameter; agglomerates up to approximately 6 microns.PropertiesChemical Formula: In2O3General Description: Bright yellow powderPurity Grades Available: 4N (99.99%), 5N (99.999%)Solubility: Insoluble in water and alcohol.UsesManufacturing of ITO sputtering targets and evaporation chargesColoring ceramics and glassesInformation provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-In2O3-Type-B-Indium-Oxide-Fine-Powder.php

Physical Properties	Metric	English	Comments
Particle Size	0.70 - 1.1 µm	0.70 - 1.1 µm	d10
	1.1 - 2.6 µm	1.1 - 2.6 µm	d50
	2.1 - 4.3 µm	2.1 - 4.3 µm	d90
Specific Surface Area	10.6 m²/g	10.6 m²/g	BET
Molecular Weight	277.64 g/mol	277.64 g/mol	

Component Elements Properties	Metric	English	Comments
Indium, In	81.1 - 83.5 %	81.1 - 83.5 %	
	82.7 %	82.7 %	Theoretical

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