

Indium Corp. In₂O₃ Type A Indium Oxide, Crystalline Powder

Category : Ceramic , Oxide

Material Notes:

Indium Sesquioxide is a yellow colored powder. It is a stable ceramic-like material, insoluble in water and volatilizes 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 - Crystalline: The primary particles range from 0.4 to 1.0 microns in diameter; agglomerates up to approximately 30 microns. Properties Chemical Formula: In₂O₃ General Description: Bright yellow powder Purity Grades Available: 4N (99.99%), 5N (99.999%) Solubility: Insoluble in water and alcohol. Uses Manufacturing of ITO sputtering targets and evaporation charges Coloring ceramics and glasses Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	7.20 g/cc	7.20 g/cc	
Particle Size	1.7 - 10.3 Åµm	1.7 - 10.3 Åµm	d10
	6.0 - 23 Åµm	6.0 - 23 Åµm	d50
	14 - 38 Åµm	14 - 38 Åµm	d90
Specific Surface Area	0.424 m ² /g	0.424 m ² /g	BET
Molecular Weight	277.64 g/mol	277.64 g/mol	

Component Elements Properties	Metric	English	Comments
Indium, In	81.5 - 83.3 %	81.5 - 83.3 %	
	82.7 %	82.7 %	Theoretical

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