

Technical Data Sheet

Indium Tin Oxide

Revision Date: 11/7/2025

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name	Indium Tin Oxide
Product code	NO-0045-UP
CAS	50926-11-9
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)151-41255671

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Indium Tin Oxide
CAS No.	50926-11-9
Empirical Formula	$\text{In}_2\text{O}_3:\text{SnO}_2$ (9:1)
Molecular weight	~ 265 g/mol
Purity	99.99 %
Morphology	irregular
Average Particle Size	20 – 70 nm
Specific Surface Area	24 m ² /g
True Density	7.12 -7.16 g/cm ³
Bulk Density	0.75 – 0.91 g/cm ³

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3 CONTENT IMPURITIES

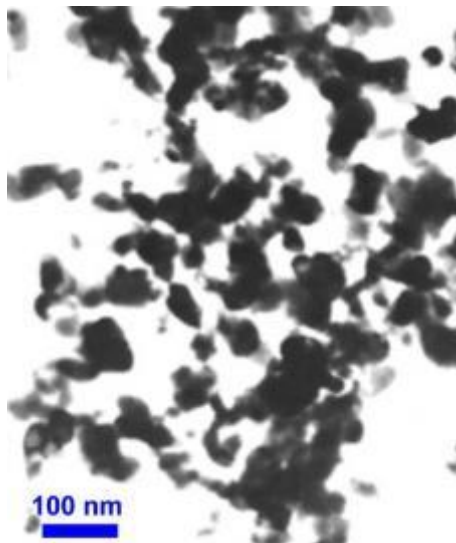
Impurity	Content
Al	2.0 ppm
Sb	3.5 ppm
Cd	1.0 ppm
Cu	2.4 ppm
Fe	3.5 ppm
Pb	9.5 ppm
Ni	1.0 ppm
Si	5.9 ppm
Zn	2.6 ppm
Co	0.6 ppm
As	1.5 ppm
P	0.5 ppm
Ca	1.4 ppm
Mg	2.5 ppm
Bi	9.0 ppm

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4 TRANSMISSION ELECTRON MICROSCOPY



5 OTHER INFORMATION

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