

Technical Data Sheet

Revision Date: 11/7/2025

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

Product name	Hafnium(IV) oxide powder
Product code	NO-0062-UP
CAS	12055-23-1
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	Hafnium(IV) oxide
CAS No.	12055-23-1
Empirical Formula	HfO ₂
Molecular weight	210.49 g/mol
Purity	99.9 %
Zirconium oxide (ZrO₂)	< 0.4%
Morphology	nearly spherical
Crystal phase	cubic
Average Particle Size	61 – 80 nm
True Density	9.70 g/cm ³
Melting Point	2812°C

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4 TYPICAL IMPURITIES

Impurity	Content
Fe	< 12 ppm
Ni	< 9 ppm
Mn	< 1 ppm
Ti	< 10 ppm
Cu	< 5 ppm
Cr	< 5 ppm
Al	< 10 ppm
Mg	< 15 ppm

5 OTHER INFORMATION

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