

Technical Data Sheet

Zirconium carbide powder

Revision Date: 8/13/2025

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

Product name	Zirconium carbide powder
Product code	NC-0013-SG
CAS	12070-14-3
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	Zirconium carbide
CAS No.	12070-14-3
Empirical Formula	ZrC
Molecular weight	103.23 g/mol
Purity	97%
Hafnium content	~ 3%
Morphology	spherical
Average Particle Size	< 60 nm
Specific Surface Area	> 70 m ² /g
Relative Density	6.73 g/cm ³
Bulk Density	0.08 g/cm ³

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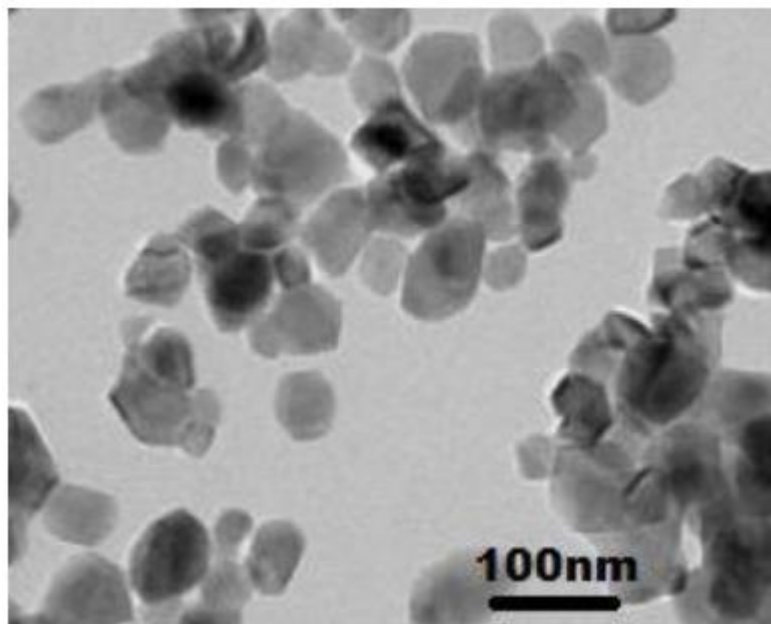
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3 CONTENT OF IMPURITIES

Impurity	Content
Cr	$\leq 0.5\%$
O	$\sim 1.0\%$
Cl	$\leq 0.2\%$
Si	$\leq 0.10\%$
Fe	$\leq 0.05\%$
Ni	$\leq 0.05\%$

4 TEM IMAGE



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5 OTHER INFORMATION

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