

Technical Data Sheet

Titanium carbide

Revision Date: 31/03/2025 Date Issued: 31/03/2025

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

Product name Titanium carbide powder

 Product code
 NC-0004-HP

 CAS
 12070-08-5

Supplier loLiTec

Ionic Liquids Technologies GmbH

Im Zukunftspark 9
D-74076 Heilbronn

Germany

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Titanium carbide

CAS No. 12070-08-5

Empirical Formula TiC

Molecular weight 49.88 g/mol

Purity >97 %

Morphology nearly spherical

Crystallographic phasecubicAverage Particle Size50 nmSpecific Surface Area23 m²/gRelative Density4.93 g/cm³

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Bulk Density < 0.08 g/cm³

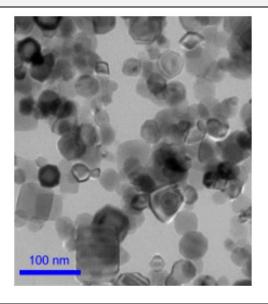
Melting point3140°CBoiling point4820°C

Synthesis method plasma CVD

3 CONTENT OF IMPURITIES

Impurity	Content
С	≤ 1%
CI	≤ 1%
Fe	≤ 0.10%
Ni	≤ 0.10%
Cr	≤ 0.20%
Si	≤ 0.20%

4 TEM IMAGE



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5 OTHER INFORMATION

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