

Technical Data Sheet

Gadolinium(III)oxide powder

Date Issued: 2019-08-13

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

Product name	Gadolinium(III)oxide powder
Product code	NO-0022-UP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)179 - 5322578

2 COMPOSITION / INFORMATION ON INGREDIENTS

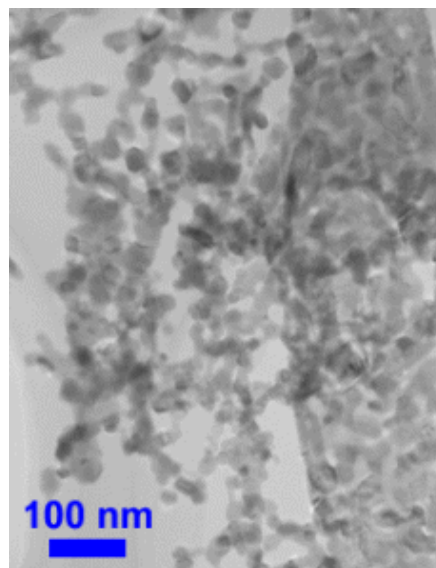
Ingredient name	Gadolinium(III)oxide
CAS No.	12064-62-9
Empirical Formula	Gd ₂ O ₃
Molecular weight	362.50 amu
Purity (REO)	99.9+%
Average Particle Size	20-80 nm
Specific Surface Area	10-40 m ² /g
Colour	White
Morphology	nearly spherical
Bulk Density	0.3-0.4 g/cm ³
True Density	7.4 g/cm ³
Melting Point	2350°C

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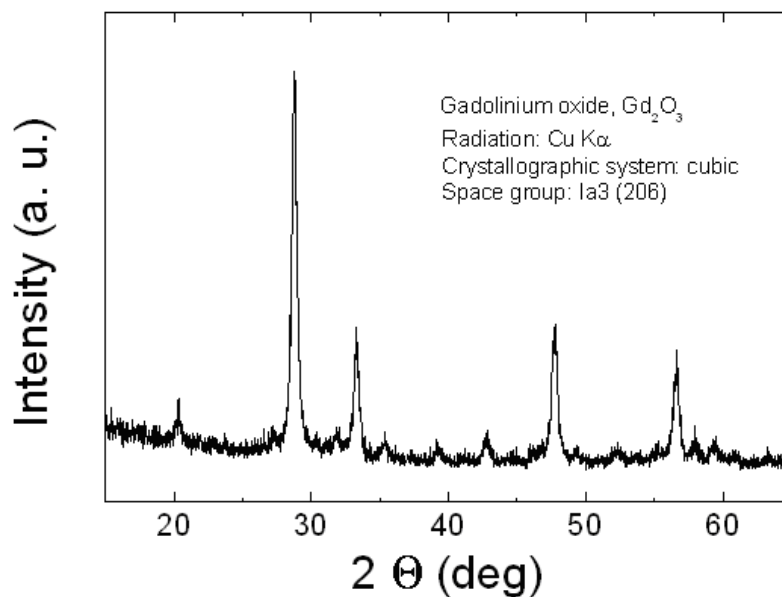
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3 TRANSMISSION ELECTRON MICROSCOPY



4 X-RAY DIFFRACTION PATTERN



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6 OTHER INFORMATION

DISCLAIMER

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