

Technical Data Sheet

Dysprosium(III)oxide powder

Date Issued: 2019-08-13

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

Product name	Dysprosium(III)oxide powder
Product code	NO-0019--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	Dysprosium(III)oxide
CAS No.	1308-87-8
Empirical Formula	Dy ₂ O ₃
Molecular weight	373.00 amu
Purity	99.9 %
Average Particle Size	55 nm
Specific Surface Area	20 m ² /g
Colour	white
Morphology	nearly spherical
Bulk Density	0.44 g/cm ³
True Density	7.81 g/cm ³

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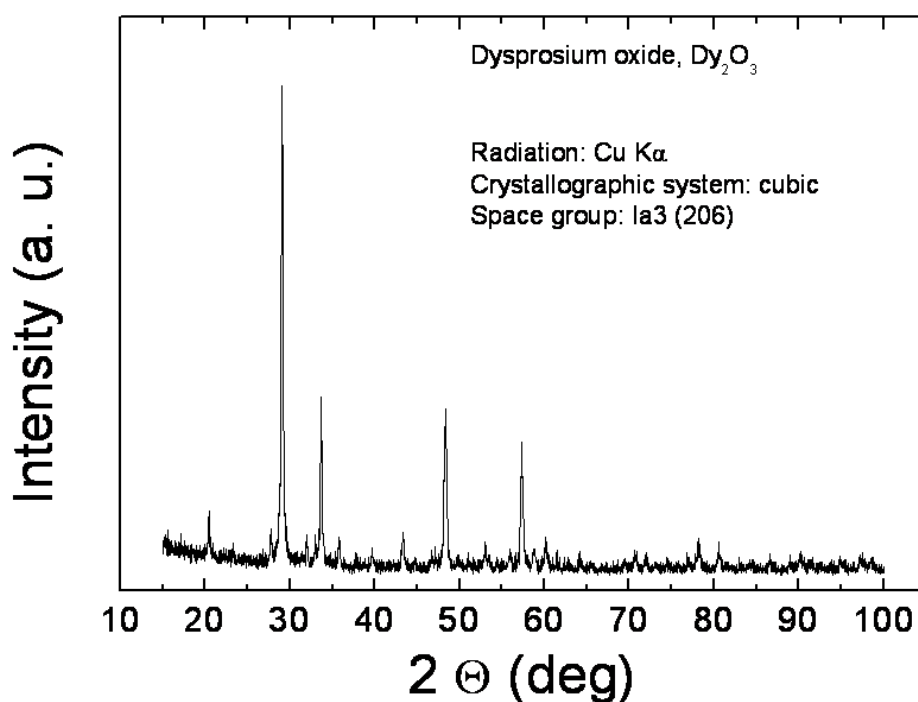
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3 POTENTIAL APPLICATIONS OF DY_2O_3 NANOPOWDERS

- Dopants for fluorescent Materials
- Luminescence
- Magneto-optical recording materials
- Materials with a large magnetostriction
- Measurement of neutron energy-spectrum
- Nuclear reaction control rods
- Neutron absorbents

4 X-RAY DIFFRACTION PATTERN



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5 ORDER INFORMATION

Dy₂O₃ NO-0019-HP can be obtained in the following standard quantities.

Quantity	Price
25 g	Please enquire
50 g	Please enquire
100 g	Please enquire
500 g	Please enquire
1 kg	Please enquire

Please send your order via email to order@nanomaterials.iolitec.de
or fax +49 (0)7131 – 89839109.

6 OTHER INFORMATION

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