

Technical Data Sheet

Aluminium oxide, alpha

Revision Date: 2009-08-03

Date Issued: 2007-01-03

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

Product name	Aluminium oxide, alpha, Nanopowder
Product code	NO-0003-HP
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	Aluminium oxide, alpha
CAS No.	1344-28-1
Empirical Formula	$\alpha\text{-Al}_2\text{O}_3$
Molecular weight	101.96 amu
Purity	99+ %
Average Particle Size	80 nm
Specific Surface Area (BET)	<10 m ² /g
Colour	white
Morphology	nearly spherical
Bulk Density	1.6 g/cm ³
True Density	3.60 g/cm ³

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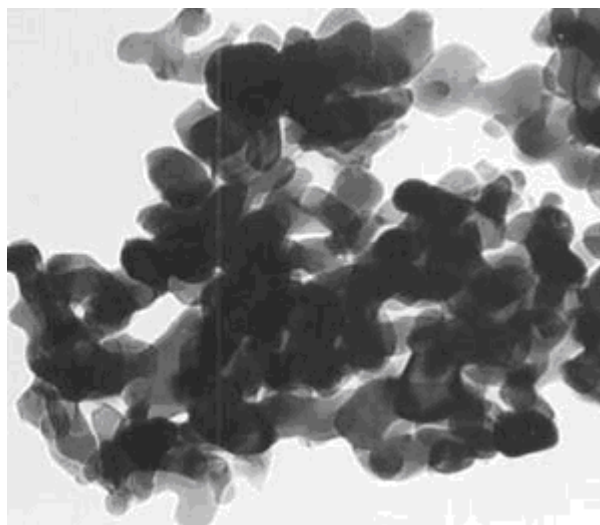
Melting point 2045°C

Boiling point 2980°C

3 CONTENT OF IMPURITIES

Impurity	Content
Na	< 0.03 %
Si	3.5 ppm
Ca	1.6 ppm
Fe	0.2 ppm
Co	0.8 ppm

4 TRANSMISSION ELECTRON MICROSCOPY



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5 X-RAY DIFFRACTION PATTERN

N/A

6 ORDER INFORMATION

a-Aluminium oxide can be obtained in the following standard quantities.

Quantity	Price
100 g	Please enquire
500 g	Please enquire
1000 g	Please enquire
5 kg	Please enquire

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

7 OTHER INFORMATION

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