

Technical Data Sheet

alpha Aluminium oxide

Revision Date: 04/17/2024

Date Issued: 04/17/2024

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

Product name	Aluminium oxide powder
Product code	NO-0003-HP
CAS	1344-28-1
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	Aluminium oxide, alpha
CAS No.	1344-28-1
Empirical Formula	Al ₂ O ₃
Molecular weight	101.96 g/mol
Purity	99+%
Average Particle Size	80 nm (XRD)
Specific Surface Area	> 15 m ² /g (BET)
Crystallographic Structure	rhombohedral
Relative Density	3.9 g/cm ³

Technical Data Sheet

alpha Aluminium oxide

Revision Date: 04/17/2024

Date Issued: 04/17/2024

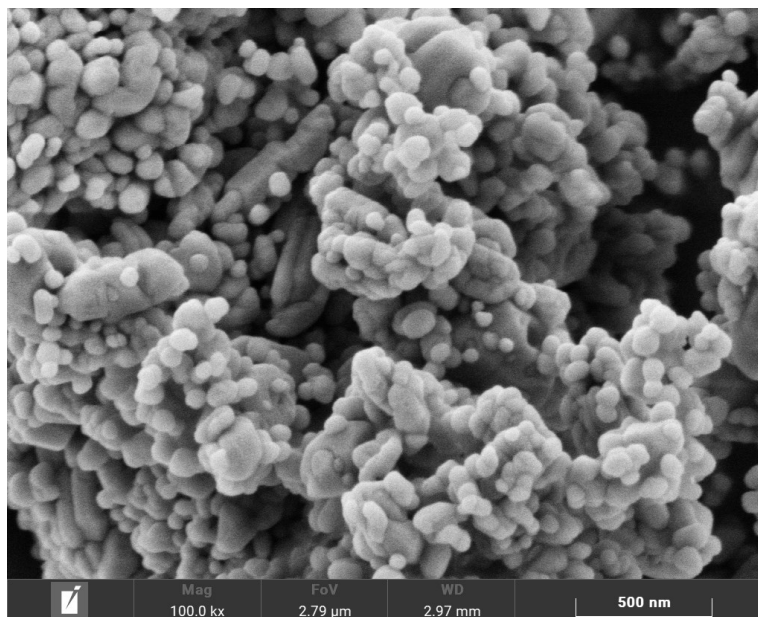
Melting point 2072°C

Boiling point 2977°

3 CONTENT OF IMPURITIES

Impurity	Content
Na	≤ 30 ppm
Ca	≤ 20 ppm
V	≤ 5 ppm
Cl	≤ 280 ppm
Co	≤ 5 ppm
Mn	≤ 5 ppm

4 TRANSMISSION ELECTRON MICROSCOPY



Technical Data Sheet

alpha Aluminium oxide

Revision Date: 04/17/2024

Date Issued: 04/17/2024

5 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.