

Technical Data Sheet

Silicon oxide, 10 – 20 nm, surface modified with amino group

Revision Date: 07/15/2025

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

Product name	Silicon oxide, 10 – 20 nm surface modified with amino group
Product code	NO-0056-HP
CAS	7631-86-9
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	Silicon dioxide
CAS No.	7631-86-9
Empirical Formula	SiO ₂
Molecular weight	60.09 g/mol
Purity	99.8%
Surface Modificcation	amino group, dispersible
Loss on drying	< 3% (105 °C, 2h)
Loss on ignition	< 10% (950 °C, 2h)
Contents of SiO₂	> 85% (dry basis)
Contents of SiO₂	> 99.8% (950 °C, 2h)

Technical Data Sheet

Silicon oxide, 10 – 20 nm, surface modified with amino group

Revision Date: 07/15/2025

Contents of carbon	> 0.3%
Average Particle Size	10 – 20 nm
Specific Surface Area	90 – 130 m ² /g
True Density	2.2 – 2.6 g/cm ³
Bulk Density	0.15 g/cm ³
Melting point	1610 – 1728°C
Boiling point	2230°

3 CONTENT OF IMPURITIES

Impurity	Content
C	≤ 0.5 wt%
Ca	≤ 1000 ppm
Fe	≤ 500 ppm
Ti	≤ 500 ppm
Na	≤ 500 ppm

4 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.

Technical Data Sheet

Silicon oxide, 10 – 20 nm, surface modified with amino group

Revision Date: 07/15/2025

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.