

Technical Data Sheet

Copper(II)Oxide Powder

Revision Date: 02/02/2009

Date Issued: 03/02/2007

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

Product name	Copper(II)oxide powder, 99.5%, 12 nm
Product code	NO-0004-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	Copper(II)oxide
CAS No.	1317-38-0
Empirical Formula	CuO
Molecular weight	79.55 amu
Purity	99.5 %
Average Particle Size	12 nm
Specific Surface Area	-
Colour	Black
Morphology	See TEM picture
Bulk Density	-
True Density	6.32 g/cm ³ (at 20 °C)

Technical Data Sheet

Copper(II)Oxide Powder

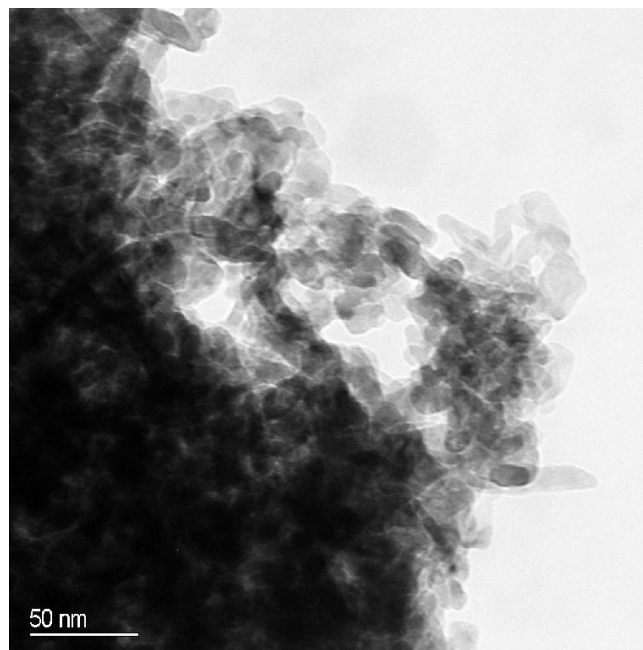
Revision Date: 02/02/2009

Date Issued: 03/02/2007

3 SPECIFICATIONS:ICP-OES

Element	Gehalt / ppm
Al	0,5
As	0,3
Ba	1,1
Cd	0,2
Co	0,5
Cr	0,1
K	0,4
Mn	0,3
Mo	1,4
Ni	5,0
Pb	nicht nachweisbar
Se	1,1
Sr	0,5
Zn	3,2

4 TRANSMISSION ELECTRON MICROSCOPY



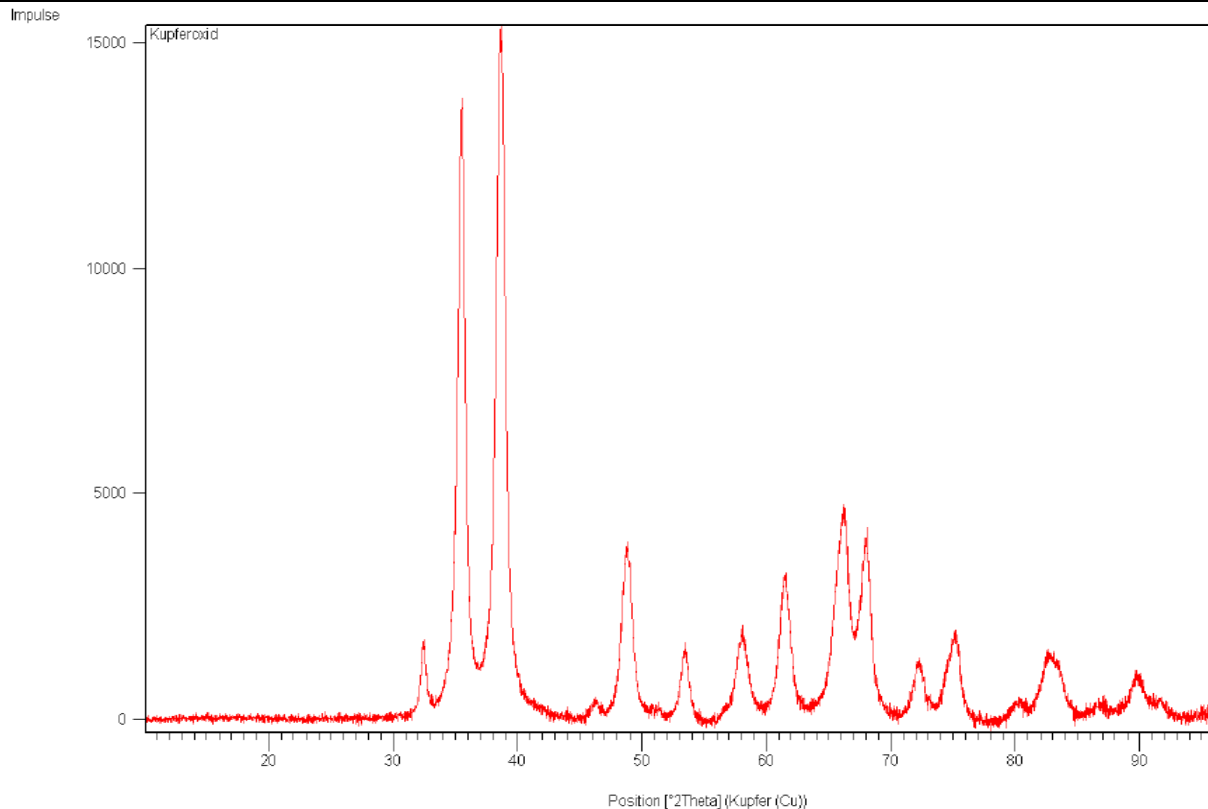
Technical Data Sheet

Copper(II)Oxide Powder

Revision Date: 02/02/2009

Date Issued: 03/02/2007

5 X-RAY DIFFRACTION PATTERN



6 ORDER INFORMATION

NO-0004-HP can be obtained in the following standard quantities:

Quantity	Price
10 g	Please enquire
25 g	Please enquire
50 g	Please enquire
100 g	Please enquire
500 g	Please enquire
Bulk	Please enquire

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

Technical Data Sheet

Copper(II)Oxide Powder

Revision Date: 02/02/2009

Date Issued: 03/02/2007

7 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 USERE'S RESPONISIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IT IS THE USERE'S RESPONISIBILTY 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.