

Technical Data Sheet

Cobalt nanopowder, 28 nm

Revision Date: 03/06/2009

Date Issued: 03/02/2007

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

Product name	Cobalt nanopowder, 28 nm
Product code	NM-0007-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	Cobalt powder partially passivated w/[O] ~ 10%
Empirical Formula	Co
CAS No.	7440-48-4
Molecular weight	58.93 amu
Purity	99.9 % (metal basis)
Average particle size	28 nm (TEM)
Particle size range	0-60 nm (TEM)
Specific Surface Area	40 to 60 m ² /g (BET)
Colour	Black
Morphology	spherical
Bulk Density	0.10-0.25 g/cm ³

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True Density 8.92 g/cm³
Melting point 1495°C
Production method Plasma CVD Synthesis

3 SPECIFICATIONS

Components	Contents (%)
Cr	0.0002
Fe	0.01
Mn	0.003
Ni	0.08
Si	0.004

4 TRANSMISSION ELECTRON MICROSCOPY



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5 X-RAY DIFFRACTION PATTERN

Not available

6 ORDER INFORMATION

NM-0007-HP can be obtained in the following standard quantities:

Quantity	Price
10 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.

7 OTHER INFORMATION

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