



TECHNICAL DATA SHEET

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Product code:	13-01-252
Product name:	nanomag@-silica
Surface:	NH ₂
Size:	250 nm
Solid content:	10 mg/ml
Composition:	silica-fortified dextran iron oxide composite particles
Polydispersity index:	< 0.2
Shape:	cluster-typed
Density:	2.5 g/ccm
Magnetization:	43 Am ² /kg iron (H = 80 kA/m)
Saturation magnetization:	>63 Am ² /kg iron (H > 800 kA/m)
Coercive field H_c:	0.469 kA/m
Stable in:	aqueous buffers pH > 4
Not stable in:	organic solvents, acidic solutions pH < 4
Product form:	Suspension in water
Particles per ml:	4.9 E11
Particles per mg:	4.9 E10
Surface charge density:	2 μmol/g
Colour:	dark brown
Additional remarks:	Storage at 2 - 8 °C for 6 months.