TECHNICAL DATA SHEET

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Product code: 79-01-201
Product name: nanomag®-D-spio
Surface: NH$_2$
Size: 20 nm
Solid content: 5 mg/ml
Composition: dextran iron oxide composite particles
Polydispersity index: < 0.25
Shape: cluster-typed
Density: 1.4 g/ccm
Iron concentration: 2.4 mg/ml
Magnetization: 54 Am$^2$/kg iron (H = 80 kA/m)
Saturation magnetization: >69 Am$^2$/kg iron (H > 800 kA/m)
Coercive field Hc: 0.049 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: 8.6 E14
Particles per mg: 1.7 E14
Surface charge density: 3 µmol/ g iron
Colour: dark brown
Additional remarks: Storage at 2 - 8 °C for 6 months.
TECHNOTES: The mean hydrodynamic particle diameter may vary in the range of 20-110 nm (Z-Average, photon correlation spectroscopy).