



## TECHNICAL DATA SHEET

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|--------------------------------------|--|
| <b>Product code:</b>                 | 102-02-132   |
| <b>Product name:</b>                 | perimag®   |
| <b>Surface:</b>                      | COOH   |
| <b>Size:</b>                         | 130 nm   |
| <b>Solid content:</b>                | 10 mg/ml   |
| <b>Composition:</b>                  | dextran iron oxide composite particles   |
| <b>Polydispersity index:</b>         | < 0.25   |
| <b>Shape:</b>                        | cluster-typed  |
| <b>Density:</b>                      | 1.4 g/ccm  |
| <b>Iron concentration:</b>           | 5 mg/ml  |
| <b>Magnetization:</b>                | 76 Am <sup>2</sup> /kg iron (H = 80 kA/m)  |
| <b>Saturation magnetization:</b>     | >87 Am <sup>2</sup> /kg iron (H > 800 kA/m)                                      |
| <b>Coercive field H<sub>c</sub>:</b> | 0.5 kA/m   |
| <b>Stable in:</b>                    | aqueous buffers pH > 4   |
| <b>Not stable in:</b>                | organic solvents, acidic solutions pH < 4  |
| <b>Product form:</b>                 | Suspension in water  |
| <b>Particles per ml:</b>             | 6.3 E12  |
| <b>Particles per mg:</b>             | 6.2 E11  |
| <b>Surface charge density:</b>       | 1 µmol/ g iron   |
| <b>Protein binding capacity:</b>     | 1.5 - 2.0 µg albumin (BSA) / mg particle (8 - 10 molecules albumin per particle) |
| <b>Colour:</b>                       | dark brown   |
| <b>Additional remarks:</b>           | Storage at 2 - 8 °C for 6 months.  |