



## TECHNICAL DATA SHEET

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<b>Product code:</b>	10-02-102
<b>Product name:</b>	BNF-Starch
<b>Surface:</b>	COOH
<b>Size:</b>	100 nm
<b>Solid content:</b>	10 mg/ml
<b>Composition:</b>	cross-linked starch iron oxide composite particles
<b>Polydispersity index:</b>	< 0.250
<b>Shape:</b>	cluster-typed
<b>Density:</b>	3.2 g/ccm
<b>Iron concentration:</b>	6 mg/ml
<b>Magnetization:</b>	49 Am <sup>2</sup> /kg iron (H = 80 kA/m)
<b>Saturation magnetization:</b>	>76 Am <sup>2</sup> /kg iron (H > 800 kA/m)
<b>Coercive field H<sub>c</sub>:</b>	0.449 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 PBS buffer (pH = 7.4)
<b>Particles per ml:</b>	6.0 E12
<b>Particles per mg:</b>	6.0 E11
<b>Colour:</b>	dark brown
<b>Additional remarks:</b>	Storage at 2 - 8 °C for 6 months.
<b>TECHNOTES:</b>	The particle matrix consists of hydroxyethyl starch.