

Product data sheet

Name of the product: SPIO-Bi, powder

Guarantee: 1 year from manufacture, under the specified storage conditions.

Product number: SP1BI12

Storage: 15 - 25°C. DO NOT FREEZE.

Product representation :



Usage: Ensure the nanoparticles are well dispersed in the medium prior to use : to use in suspension, bath sonication is needed.

Product specifications:

Property <i>Characterization technique</i>	Unit	Specifications	
		Min.	Max.
Appearance (Back or brown powder) <i>Visual Inspection</i>	-	-	-
Magnetic <i>Test with magnet</i>	-	-	-
Metal mass percentage <i>X-ray fluorescence (XF)</i>	wt%	8	11
Phase of SPIO (Magnetite) <i>X-ray Diffraction (XRD)</i>	-	-	-
Crystallite size <i>X-ray Diffraction (XRD)</i>	nm	10	20
Mesh parameter <i>X-ray Diffraction (XRD)</i>	Å	8.370	8.390
Oxygen stoichiometry <i>X-ray Diffraction (XRD)</i>	-	0	0.111
Fe²⁺/Fe³⁺ratio <i>X-ray Diffraction (XRD)</i>	-	0	50
Mean particle size <i>Transmission Electron Microscopy (TEM)</i>	nm	10	20