

Product data sheet

Name of the product: SPIO-Pd, powder

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

Product number: SP1PD12

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	Characterization technique	Unit	Specifications	
			Min.	Max.
Appearance (Back or brown powder)			-	-
<i>Visual Inspection</i>			-	-
Magnetic			-	-
<i>Test with magnet</i>			-	-
Metal mass percentage		wt%	5	9
<i>X-ray fluorescence (XF)</i>				
Phase of SPIO (Magnetite)			-	-
<i>X-ray Diffraction (XRD)</i>			-	-
Crystallite size		nm	10	20
<i>X-ray Diffraction (XRD)</i>				
Mesh parameter		Å	8.370	8.390
<i>X-ray Diffraction (XRD)</i>				
Oxygen stoichiometry			-	0.111
<i>X-ray Diffraction (XRD)</i>				
Fe²⁺/Fe³⁺ratio			-	0
<i>X-ray Diffraction (XRD)</i>				50
Mean particle size		nm	10	20
<i>Transmission Electron Microscopy (TEM)</i>				