

Product data sheet

Name of the product: SPIO-Zn, powder

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

Product number: SP1ZN12

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	Unit	Specifications	
		Min.	Max.
Characterization technique			
Appearance (Black or brown powder)		-	-
<i>Visual Inspection</i>		-	-
Magnetic		-	-
<i>Test with magnet</i>		-	-
Metal mass percentage	wt%	5	10
<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	0.111
<i>X-ray Diffraction (XRD)</i>			
Fe²⁺/Fe³⁺ratio		0	50
<i>X-ray Diffraction (XRD)</i>			
Mean particle size	nm	10	20
<i>Transmission Electron Microscopy (TEM)</i>			