

Product data sheet

Name of the product: SPIO-Ir, powder

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

Product number: SP1IR12

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	
Characterization technique		Min.	Max.
Appearance (Back or brown powder)	-	-	-
Visual Inspection			
Magnetic	-	-	-
Test with magnet			
Metal mass percentage	wt%	3	5
X-ray fluorescence (XF)			
Phase of SPIO (Magnetite)	-	-	-
X-ray Diffraction (XRD)			
Crystallite size	nm	10	20
X-ray Diffraction (XRD)			
Mesh parameter	Å	8.370	8.390
X-ray Diffraction (XRD)			
Oxygen stoichiometry	-	0	0.111
X-ray Diffraction (XRD)			
Fe ²⁺ /Fe ³⁺ ratio	-	0	50
X-ray Diffraction (XRD)			
Mean particle size	nm	10	20
Transmission Electron Microscopy (TEM)			