Product data sheet

Name of the product: SPIO-Pd, powder

Product number: SP1PD12

Product representation :

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

Storage: 15 - 25°C. DO NOT FREEZE.

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 (Black or brown) *Visual Inspection*	-	-	-
Magnetic *Test with magnet*	-	-	-
Metal mass pecentage *X-ray fluorescence (XF)*	wt%	5	9
Phase of SPIO (Magnetite) *X-ray Diffraction (XRD)*	-	-	-
Crystallite size *X-ray Diffraction (XRD)*	nm	10	20
Mesh parameter *X-ray Diffraction (XRD)*	Å	8.370	8.390
Oxygen stoechiometry *X-ray Diffraction (XRD)*	-	0	0.111
Fe^{2+}/Fe^{3+}ratio *X-ray Diffraction (XRD)*	-	0	50
Mean particle size *Transmission Electron Microscopy (TEM)*	nm	10	20