

Product data sheet

Name of the product: SPIO-Te, powder

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

Product number: SP1TE12

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 | 6 |
| 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) | | | |