

# Technical Data Sheet

**Product Name:** Gelest Black Iron Oxide SD  
**Product Code:** BIA-SDA  
**INCI Name:(proposed)** Iron Oxides, Hydroxy, Methyl Silsesquioxane  
**CAS #:** 1317-61-9, 56275-01-5  
**EINECS #** 215-277-5, n/a (polymer)  
**CI Number:** 77499  
**Date Issued** 2/11/08  
**Revision Number:** 1; jch

## Typical Properties

*Note: The values below are typical, not intended for use in preparing specifications. Please contact the Gelest PCS sales representative when writing specifications.*

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<u>Test</u>	<u>Parameter</u>
Appearance	black powder
Odor	Slight, characteristic
Hydrophobicity:	Passes (1gram floats on 50 ml still deionized water for one hour)
Loss on Drying @ 105°C three hours	< 2.5%
Heavy metals:	
Arsenic:	maximum 3 ppm
Barium:	maximum 50 ppm
Cadmium:	maximum 10 ppm
Chromium:	maximum 100 ppm
Copper:	maximum 50 ppm
Lead:	maximum 10 ppm
Mercury:	maximum 1 ppm
Nickel:	maximum 200 ppm
Zinc:	maximum 100 ppm
Microbial content:	< 100 cfu/gram; no pathogens
Composition:	
Black Iron Oxide	97.5-98.5%
Hydroxy, Methyl Silsesquioxane	1.5- 2.5 %