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## Product Specification

Product Name:  
LUDOX® LS colloidal silica – 30 wt. % suspension in H<sub>2</sub>O

**Product Number:** 420808 SiO<sub>2</sub>  
 MDL: MFCD00011232  
 Formula: O<sub>2</sub>Si  
 Formula Weight: 60.08 g/mol

TEST	Specification
Appearance (Color)	Colorless
Colorless to Opalescent (May Have a Blue Cast)	
Appearance (Form)	Viscous Liquid
Additional Test	Confirmed
Ludox LS	
ICP Major Analysis	Confirmed
Confirms Silicon Component	
Specific Gravity	1.197 - 1.217
At 60 Degrees Fahrenheit	
pH	7.8 - 8.6
At 25 Degrees Celsius	
Viscosity	≤ 25 cps
Assay	29.0 - 31.0 %
SiO <sub>2</sub>	
Ratio	250 - 300
SiO <sub>2</sub> /Na <sub>2</sub> O	
Surface Area (m <sup>2</sup> /g)	198 - 258
Sulfate (SO <sub>4</sub> )	≤ 0.02 %
As Na <sub>2</sub> SO <sub>4</sub>	
Transmission	≥ 62.0 %
Alkalinity	0.097 - 0.124 %
Na <sub>2</sub> O	
Registered Trademark	Confirmed
LUDOX is a registered trademark of W.R. Grace & Co.-Conn.	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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SiO<sub>2</sub>

MDL: MFCD00011232

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**TEST****Specification**

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Specification: PRD.0.ZQ5.10000024495

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