

Ludox Colloidal Silica Grace

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Elastomeric cool roof coatings with Expancel Microspheres and Levasil Colloidal Silica Colloidal Silica W. R. Grace and Company | Wikipedia audio article [Ludox Colloidal Silica Grace](#)

When you choose LUDOX® colloidal silica, you choose the benefits of working with Grace. Our expertise in silica - a material Grace has been innovating for more than a century - is evident in the customer service and support we provide. With unique proprietary particle growth and formulation expertise, Grace develops solutions to deliver the right product characteristics for your application.

[LUDOX® Colloidal Silica - Grace.com](#)

LUDOX® colloidal silica contains discrete, spherical particles of amorphous silica in the low nanometer size range. The particles are dispersed in water, are non-porous and exhibit no detectable crystallinity. LUDOX® colloidal silica is especially useful in applications requiring chemical inertness and heat resistance in the final product.

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LUDOX® colloidal silicas are used in inkjet coatings, steam/wetting promoters, and latex coatings and adhesives. With its small particle size, LUDOX® colloidal silica performs multiple functions in water-borne coating formulations. Particles in the smaller size range act as binders or co-binders adding strength and durability to the coating due to silica reactivity with other silica particles, metal surfaces, fillers, or organic polymers.

[Grace Colloidal Silica and Defoamers - LUDOX® - ZEOFOAM ...](#)

Overview LUDOX® colloidal silica is useful in applications or products that require heat resistance and chemical inertness. The particles develop strong adhesive and cohesive bonds and are effective inorganic binders for granular and fibrous materials, especially where elevated temperatures are required.

[LUDOX® Monodispersed Colloidal Silica, Grace - ChemPoint](#)

LUDOX® TM-50 is an alkaline, aqueous colloidal silica that contains 50% anionic silica particles stabilized with sodium ions. The particle size of LUDOX® TM-50 and the high concentration of silica make it an excellent choice for surface modification applications.

[LUDOX® TM-50, Grace - ChemPoint](#)

LUDOX® - Improved Resiliency for Building & Construction LUDOX® Colloidal Silica is used in a wide range of processes to improve the and resiliency of building materials. Formulating LUDOX® into concrete, coatings, adhesives, and sealants increases productivity and reduces cost while boosting the strength and consistency of the end product.

[Lithium Polysilicate, Grace - ChemPoint](#)

Grace Davison Engineered Materials Technical Information LUDOX® Colloidal Silica in Coatings Lithium Polysilicate in Coatings Introduction LUDOX® colloidal silicas are aqueous dispersions of very small silica particles in the low nanometer size range. Many grades are offered in this family, giving broad flexibility for specific performance targets.

[LUDOX Colloidal Silica in Coatings Lithium ... - Grace](#)

While a number of colloidal silica grades may have possible utility, LUDOX® CL-P and CL-X have been specially formulated to give superior performance and easy cleanup from coating machine surfaces. Invisible surface treatment; Easy cleanup; Excellent slide angle performance; Good friction retention; No agitation required; Economical with high dilutions

[Functional Paper Additives Frictionizing Retention ... - Grace](#)

LUDOX® SK colloidal silica can be used to replace ethyl silicate binders in investment casting slurries. Providing sufficient airflow is used to promote maximum water removal rates, LUDOX SK colloidal silica:

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Gives similar shell building times Gives the same dimensions as ethyl silicate Does not require achieving low humidities ☐

LUDOX SK Colloidal Silica - Grace.com

Over 3,900 Grace employees safely and sustainably develop, manufacture, license, support, and sell leading technologies to a wide variety of industries. For more than 80 percent of our sales of catalysts and silica-based materials, we rank #1 or #2.

Grace - High-Performance Specialty Chemicals and Materials

Built on more than half a century of technical and manufacturing expertise, Grace's LUDOX® colloidal silica has earned a reputation for tightly-controlled specifications and reliable, consistent quality, making it the preferred brand for high-performance applications.

W. R. Grace & Co. - Grace Doubles LUDOX® Colloidal Silica ...

W. R. Grace & Co. has announced the opening of its new 8,200 square-meter colloidal silica plant at its European flagship manufacturing and R&D center in Worms, Germany. The facility reportedly doubles the worldwide production capacity of LUDOX, Grace's leading colloidal silica product, and significantly enhances Grace's responsiveness to customers in Europe, the Middle East and Africa, (EMEA) and Asia Pacific.

Grace Doubles LUDOX® Colloidal Silica Capacity - American ...

Built on more than half a century of technical and manufacturing expertise, Grace's LUDOX® colloidal silica has earned a reputation for tightly-controlled specifications and reliable, consistent...

Grace Doubles LUDOX® Colloidal Silica Capacity with Major ...

LUDOX® HS-40 colloidal silica is the dispersion of monodispersed colloidal silica particles having the size smaller than 100 nm. It contains sodium stabilizing counterion. Application LUDOX® HS-40 colloidal silica can be used: ☐ For the synthesis of polymer-inorganic nanocomposites by directional freezing.

LUDOX® HS-30 colloidal silica 30wt. % suspension water ...

Built on more than half a century of technical and manufacturing expertise, Grace's LUDOX® colloidal silica has earned a reputation for tightly-controlled specifications and reliable ...

Grace Doubles LUDOX® Colloidal Silica Capacity with Major ...

LUDOX® Colloidal Silica is used in a wide range of processes to improve the and resiliency of building materials. Formulating LUDOX® into concrete, coatings, adhesives, and sealants increases productivity and reduces cost while boosting the strength and consistency of the end product.

LUDOX® SM, Grace - ChemPoint

LUDOX® AS-30 colloidal silica 30 wt. % suspension in H₂O Synonym: Silica preparation CAS Number 7631-86-9. Linear Formula SiO₂. Molecular Weight 60.08 . MDL number MFCD00011232. PubChem Substance ID 24866355. NACRES NA.22

LUDOX® AS-30 colloidal silica 30wt. % suspension water ...

LUDOX® HS-40 colloidal silica can be used as a silica source to synthesize sulfate sodalite, zeolite and aluminosilicate gels. It can also be used as a gradient medium in density gradient centrifugation technique.

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