

# Levasil® Colloidal Silica

LEVASIL colloidal silica is an alkaline, aqueous dispersion of microfine colloidal silica that is approximately 30% solids by weight. The silica sol is sodium stabilized and the amorphous silica particles carry a negative surface charge. The particles are discrete, have a slightly rough, spherical shape, and are present in a narrow particle size distribution. The physical appearance of the sol is a translucent liquid, slightly more viscous than water.

LEVASIL colloidal silica is a standard slurry component and can be used in either primary or backup slurries. Akzo Nobel manufactures LEVASIL colloidal silica at plants throughout the world. These colloidal silica binders are known for their consistency and quality, batch to batch and plant to plant.

## Typical Material Properties\*

	LEVASIL FO830 colloidal silica	LEVASIL FO1430 colloidal silica
Silica (Weight %)	30	30
Specific Surface Area (m <sup>2</sup> /g)	305	250
pH	10.5	10.0
Viscosity (cP)	7	5
Density (g/cm <sup>3</sup> )	1.2	1.2
Na <sub>2</sub> O (Weight %)	0.4	0.6

\*Akzo Nobel has determined test method and provided analysis as noted herein. The levels referenced herein are only for general guidance and do not constitute a firm specification.

When using standard colloidal silica in a slurry for investment casting, it may be necessary to make additions to the binder in order to achieve the required slurry properties. These additions include wetting agent, antifoam and drying indicators.

## Storage & Handling

LEVASIL colloidal silica should be transported and stored at a temperature of 40°F-95°F (5°C-35°C). If the sol is allowed to freeze, the silica will irreversibly precipitate. Translucent packages should be stored out of direct sunlight or bright light.

*As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user. All potential liability related to the sale and use of this product is limited to the cost of the particular goods sold in their respective transactions.*

## PRODUCT DATA SHEET



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