



MEGASOL®S50

silica rigidizer
for refractory shapes

How to Use Megasol®S50

Megasol®S50 is a 50% by weight colloidal silica. The viscosity is similar to water.

Megasol®S50 can be applied by spraying, painting, or dipping, depending on your application requirements.

Megasol®S50 can be diluted with water to control application rate and silica pick-up.

Storage and Handling:

Prolonged exposure to temperatures of 32°F or below should be avoided as the silica may precipitate out.

Megasol®S50 is the optimal colloidal silica for rigidizing of refractory fiber shapes and boards. **Megasol®S50's** unique physical properties result in higher packing densities and stronger bonds. With approximately one third the surface area of commonly used binders, **Megasol®S50** contains much less sodium than conventional colloidal silicas.

Use Megasol®S50 for these advantages

Better Rigidizing

Larger silica particles soak in further and faster for greater hardness throughout.

Greater Product Strength

Double the dried and fired strengths of other commonly used colloidal silica binders.

Rapid, Deeper Absorption

The larger particle size, with its lower surface charge and viscosity, is absorbed rapid and deeply for thorough rigidizing.

Less Shrinkage at High Temperatures

Larger particles and low sodium content creates less sintering and less shrinkage at 2100°F - 2300°F use temperatures.

Saves Money

50% concentration means more silica per drum, lowering freight costs on both drum and bulk deliveries.

Typical Physical Properties

Color	White
Consistency	Milky Liquid
Specific Gravity	1.39 (11.6 lbs/gallon)
Particle Size, nm	70 <i>average</i>
Surface Area	70 m ² /gm (<i>estimated</i>)
Silica, Wt. %	50
Na ₂ O, Wt. %	0.22
pH @ 25°C	9.0 – 9.5
Viscosity @ 25°C, cps	15
Toxicity	Non Toxic, See MSDS
Packaging	620 lb. Net wt. 55 gal. Drums, 3100 lb. Net wt. 275 gal. tanks

For a price quote and valuable information on how we can help you improve your vacuum formed products call

WESBOND
(302) 655-7917