



# Wesil CS

complete binder system  
for vacuum forming fibers

## How to Use Wesil CS

Wesil CS is a complete floccing and bonding system and should always be added directly to the fiber slurry, after dispersion of fiber and filler. Binder fillers and fiber will be flocced together in a three dimensional pattern for product integrity and strength.

Typical Formulation, with and without filler:

Water-Gallons	50	50
Refractory Fibers-Lbs.	8	8
Filler, Mullite 100M - Lbs.	---	3
WESIL CS Binder - Lbs.	1	1.25

Follow above order of addition, adding the dry WESIL CS Binder last after the fiber mixing and fillers; allow 5-10 minutes to disperse and floc before dropping to holding or forming tank. Form in normal fashion. Dry at 250°F.

Note Proper Use: WESIL CS Binder must not be pre-dissolved as it will floc on itself instead of the fibers.

2100°F continuous use limit recommended in riser sleeves, tapping cones, furnace burner chambers and fireplace logs.

Wesil CS is a **C**omplete refractory fiber floccing and bonding **S**ystem that replaces both colloidal silica and starch, saving the extra steps of dissolving and/or cooking the starch separately. It contains a cationic cold water swelling corn starch blended at an optimum ratio with our proprietary aluminosilicate in a dry binder. Buffers are added to maintain proper pH for maximum strength products and reduce bacteria growth for better slurry life.

## Use WESIL CS to enjoy these advantages

### *Significantly reduced costs*

Typically reduces formula costs 30-40% below colloidal silica/starch systems.

### *No more pre-dissolving or cooking starch*

Contains cationic starch eliminating time consuming extra steps.

### *Less smoke and whiter color*

Lower organic content for purer color and reduced off-gassing.

### *Better fired strength*

More inorganic binder creates better fired strength.

### *More uniform product*

Master batching creates more consistent binder ratios and enhanced product integrity.

### *No cristobalite*

Completely cristobalite free at use temperature eliminating a common source of thermal shrinkage problems and health related concerns.

### Typical Physical Properties

Color	Cream
Consistency	Medium Density Dry Powder
Approximate Bulk Density (pcf)	29
Loss on Ignition*	4 - 5%
Fusion Point (Inorganic Binder)	2400°F
Toxicity	Non Toxic, Do not breathe dusts, See MSDS
Packaging	Fiber Drums, 250 Lbs. net

\* Typical value for WESIL CS bonded fiber products

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

**WESBOND  
(302) 655-7917**