



# Wesil CS

## colloidal silica for fiber bonding

### Why Wesil CS?

- **Reduced costs** - Typically reduces formula costs 30-40% below colloidal silica/starch systems.
- **Eliminates a process step** – One binder replacing two means fewer operations and less chance for error.
- **Higher fired strength** - More inorganic binder creates better fired strength.
- **More uniform products** - Master batching creates more consistent binder ratios and enhanced product integrity.

### Typical Properties

Appearance	Light Brown Powder
Bulk density, pcf	29
Loss on Ignition (800°C)	55%
Product LOI (800°C)*	4 – 5%
Fusion Point, binder	2400°F
Toxicity	Non-Toxic. See SDS

\*Typical value for WESIL CS bonded fiber products

### Storage, Handling and Safety

Store in a dry place. Keep container closed to prevent moisture pickup.

### Packaging

55 gal. fiber drums, 250 lbs. net

Wesil CS is a **C**omplete **S**ystem for fiber bonding that replaces colloidal silica and starch. 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.

### 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 dispersing fibers and fillers). The binder, fibers, and fillers will be flocced together in a three-dimensional pattern for product integrity and strength.

#### Typical Formulation:

		with filler
Water, Gallons	50	50
Refractory Fiber, lbs	8	8
Mullite 100 filler, lbs	----	4
Wesil CS, lbs	1.0	1.25

Follow above order of addition, adding the dry WESIL CS Binder last after dispersing fibers and fillers in water; 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.

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

**WESBOND**  
**(302) 655-7917**