



Wesil NS

colloidal silica for fiber bonding

Why Wesil NS?

- **Less smoke and whiter color** - Lower organic content for purer color and reduced off-gassing.
- **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	34
Loss on Ignition (800°C)	25%
Product LOI (800°C)*	3 – 4%
Fusion Point, binder	3000°F
Toxicity	Non-Toxic. See SDS

*Typical value for WESIL NS 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 NS (**No S**moke) is a complete refractory fiber floccing and bonding system for use where a minimum of off-gassing is desired in the bonded product. Wesil NS is a dry binder containing cationic Wesolok D alumina and a small amount of organic flocculent. This binder system produces firm, strong dried boards and shapes that don't give off fumes or smoke on contact with hot metal or open flame.

How to Use Wesil NS

Wesil NS 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 NS, lbs	2.0	3.0

Follow above order of addition, adding the dry WESIL NS 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 NS 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
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