



# Wesil PRX

## colloidal silica for fiber bonding

WESIL PRX Binder (Phenolic Resin eXtender) is a blend of natural starches and our proprietary aluminosilicate binder designed to replace phenolic resins in low fiber hot top boards and other insulating fixtures used in metal production, smelting, and casting.

WESIL PRX is not quite as effective as some phenolics and may require more for equivalent hardness; we suggest you try it first at 5% by weight and adjust from there for desired strength and hardness.

## Why Wesil PRX?

- **Non-Toxic** — No "Phenol" fumes during use, and greatly reduced waste-water disposal problems.
- **Lower drying temperatures** — Contains a heat set resin that cures at 200°F so good strength is obtained at a drying temperature of 250°F, eliminating the high baking temperature required with phenolics.
- **More moisture tolerant finished product** — Non-toxic heat-set resin allows better moisture tolerance; formed parts are more able to maintain hardness and strength if exposed to humidity.

## Typical Properties

Appearance	Light Brown Powder
Bulk density, pcf	34
Loss on Ignition (800°C)	80%
Product LOI (800°C)*	3 – 4%
Fusion Point, binder	2400°F

\* Typical value for WESIL PRX bonded fiber products

## Storage, Handling and Safety

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

Avoid inhaling dust. Refer to SDS for complete safety information.

## Packaging

55 gal. fiber drums, plastic lined, 250 lbs. net

## How to Use Wesil PRX

Wesil PRX is a complete floccing and bonding system and should always be added directly to the fiber slurry (after dispersing fibers and aggregate). The binder, fibers, and aggregate will be flocced together in a three-dimensional pattern for product integrity and strength.

### Typical Formulation:

Water, Gallons	50
Refractory Fiber, lbs	20
Graded Aggregate, lbs	80
Wesil PRX, lbs	5

Follow above order of addition, adding the dry WESIL PRX Binder last after dispersing fibers and aggregate 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. Do not exceed 300°F drying temperature.

Note proper use: WESIL PRX Binder must not be pre-dissolved as it will floc on itself instead of the fibers.

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

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