



# Wesil RP

binder system  
to replace phenolics

## How to Use Wesil RP

Wesil RP is a complete floccing and bonding system and should always be added directly to the fiber slurry after dispersion of fiber and fillers.

Recommended formulations with and without filler are listed below.

### Typical Formulation:

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

Follow above order of addition, adding the dry Wesil RP Binder last after dispersion of fiber and fillers; allow 5 - 10 minutes to disperse and floc before dropping to holding or forming tank. Form in normal fashion. Formed boards and shapes should be dried at 250° F minimum to set resin. Wesil RP has a low starch content so less capacity to hold fillers; if you use more than 50% fillers (by weight of fibers), more Wesil RP will be required to hold floc.

Note Proper Use: Never pre-dissolve the Wesil RP Binder as it will floc on itself instead of the fibers

Wesil RP is a complete refractory fiber floccing and bonding system designed to **R**eplace the **P**henolic resin systems in riser sleeves and other foundry applications. Wesil RP contains cationic starch to floc the aluminosilicate binder on to the fibers and a non-toxic heat set resin that sets up during drying to give extra hardness, strength, and resistance to moisture.

## Use WESIL RP to enjoy these advantages

### *Replaces noxious phenolics*

Non-toxic heat set resin replaces hazardous phenolic resin systems.

### *Increased hardness*

Heat set resin can be used to replace starch and colloidal silica where extra hardness is required.

### *More moisture tolerant finished product*

Formed parts are more able to maintain hardness and strength if exposed to humidity.

### *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	Dry Powder
Approximate Bulk Density (pcf)	28
Loss on Ignition*	5 - 6%
Fusion Point (Inorganic Binder)	2400°F
Toxicity	Non Toxic, Do not breathe dusts, See MSDS
Packaging	Fiber Drums, 250 Lbs. net or 45 Lb. cartons

\* Typical value for WESIL RP 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**