



## Resin Coated and Chemically Bonded Sands

### Opta Minerals your source for Foundry Products:

Chromite

Foundry Sands

Cerabeads

Green Sand Additives  
(Bentonite, Carbobond & Carsins)

Olivine Sand

Resin Coated Sands and  
Chemically Bonded Sands

Riser Sleeves, Flux and  
Metal Filters

Zircon

### Contact Us

Our sales team is ready to help you to determine the right product for your job.

For more information please call us:

Toll-free: 888-689-6661

Tel: 519-720-9694

E-mail: [info@optaminerals.com](mailto:info@optaminerals.com)

Visit: [www.optaminerals.com](http://www.optaminerals.com)

Opta Minerals is the authorized distributor for **HA International** and offers the North American foundry industry the most comprehensive range of products supported in three market segments:

- **Resins Systems for bonding sand;**
- **Resin Coated Sand (RCS) for the shell process; and**
- **Refractory Coatings.**

Resin systems include: shell resins, ester cured phenolic resins-vapor cured and no-bake, phenolic urethane cold-box and no-bake resins, acid curing furan and phenolic resins, hot box resins, and inorganic binders.

Resin Coated Sands, available from Opta Minerals, include products for general purpose, aluminum, low nitrogen and specialty coated sands such as zircon.

Refractory coatings include products for iron, steel, and lost foam applications, as well as foundry ancillary products such as adhesives and release agents.

**Contact Opta Minerals today and let our experienced sales team help you find the right product to meet your foundry needs.**

**We feature and stock the following HAI products:**

### SHELL RESINS

We offer the most complete line of liquid and solid phenolic shell resins in the foundry industry. The same quality of resin used to produce Custom Sands, Super Sands, Shake Free and Sigma Sands at our Oregon plant is available to foundries which conduct their own sand coating operations.

### PHENOLIC URETHANE COLD BOX (PUCB)

Foundries interested in productivity, using Phenolic Urethane Cold Box resins, appreciate the diversity of performance capabilities offered within the Sigma Cure product line. Urethane Cold Box resins are the best in the business when it comes to high core strengths, long mixed sand bench life, humidity resistance, and release characteristics that can't be matched. If you haven't tested one of the Sigma Cure products, you haven't unlocked the productivity potential of your Cold Box operation.

### PHENOLIC URETHANE NO BAKE (PUNB)

Urethane No Bake systems offer the same performance chemistry featured in the Cold Box resins but modified for No Bake applications. No Bake product line, Techniset is a commonly used No Bake system in the industry based on its value and recognized performance. Techniset offers a diverse product line, including low VOC systems using proven Biodiesel technology. In addition to general purpose resins we offer specialty systems for aluminum and non-ferrous applications.

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### WARM BOX SYSTEM

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The Warm Box System is a latest development in heat cured core making technology which provides improved core quality, high tensile strengths, long bench life, and reduced cycle times along with lower cure temperatures. Warm Box Resin, Envirotherm, is a high tensile strength resin with improved humidity resistance, designed for use in a broad variety of casting applications.

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### ALPHASET

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The first name in phenolic ester cured No Bake systems, HAI continues to improve this patented chemistry to achieve optimum productivity and casting quality. ALPHASET's unique water soluble phenolic chemistry is capable of producing the highest level of casting quality, and minimizes the potential for casting defects experienced with other No Bake systems. The ALPHASET No Bake system is applicable to all types of metals being cast and excels in the production of large steel and alloy steel castings where other No Bake systems have shortcomings.

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### BIOCUREX

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Technology developed in Europe has been applied to the North American market to produce a variety of "Low VOC" Phenolic Urethane Cold Box products for reduced core making and casting/shakeout emissions. The "Biocure Series" may help you satisfy the permitting and emission requirements of the local regulatory agencies.

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### BETASET

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The same breakthrough chemistry which produced the ALPHASET system, was subsequently developed to produce the BETASET Cold Box system. The BETASET system uses a vaporized methyl formate gas to achieve a fast Cold Box cure and can be applied to a highly automated environment, such as automotive component production.

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### NO BAKE (FNB) ACID CURE SYSTEMS

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Industry's most comprehensive lineup of acid curing resins. The Enviroset, Super Set, and Airkure resins provide a diverse selection of products with nearly every combination of furfuryl alcohol, water, urea, and plasticizer chemistry to accommodate any casting application.

**Contact Opta Minerals today and let our experienced sales team help you find the right product to meet your foundry needs.**