

## INTRODUCING!

**SIGMA CURE 138 PT1**  
**SIGMA CURE 238 PT2**

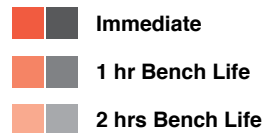
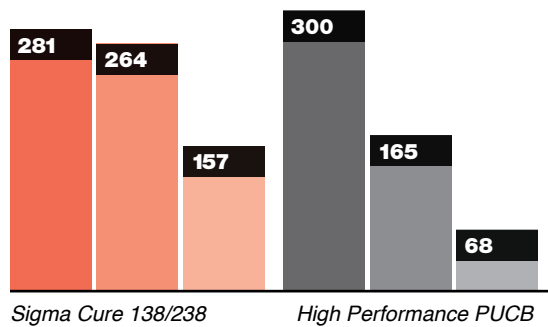
Product Performance Features:

- Excellent performance when hot sand, hot ambient conditions, as well as relative high humidity are an issue
- Engineered for ferrous applications
- The best bench life performance, especially when hot sand and high humidity are an issue
- Good hot strength

### BENCH LIFE

Tensile Strengths (PSI)

Mechanical Reclaimed Sand @ 104°F



For more information please speak with your HA International representative.

Alternatively, contact Ayax Rangel, Product Manager at 630-575-5775



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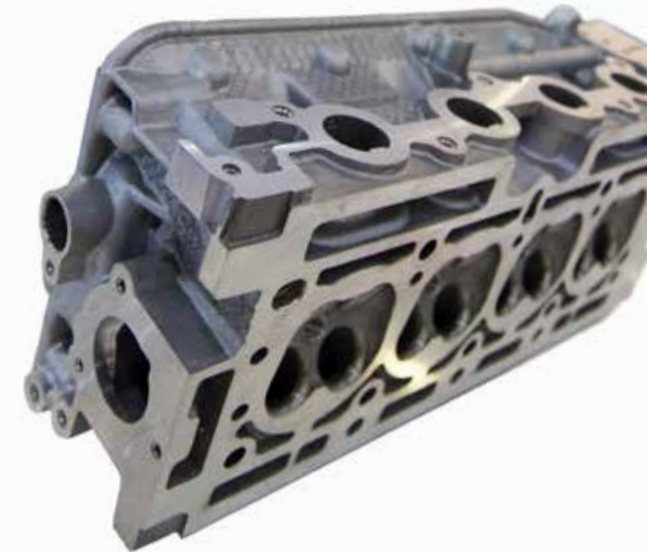
630 Oakmont Lane  
Westmont, Illinois 60559  
HA-International.com

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# Sigma cure

## Phenolic Urethane Cold Box Binder Technologies

The most comprehensive Phenolic Urethane Cold Box System.



Member of H&H Group

**THE RESULTS**  
WE DELIVER

**800.323.6863**  
HA-International.com



**Our commitment to deliver results to solve the biggest challenges faced by the metal casting industry is the force that drives us to introduce the next generation of cold box binder systems.**

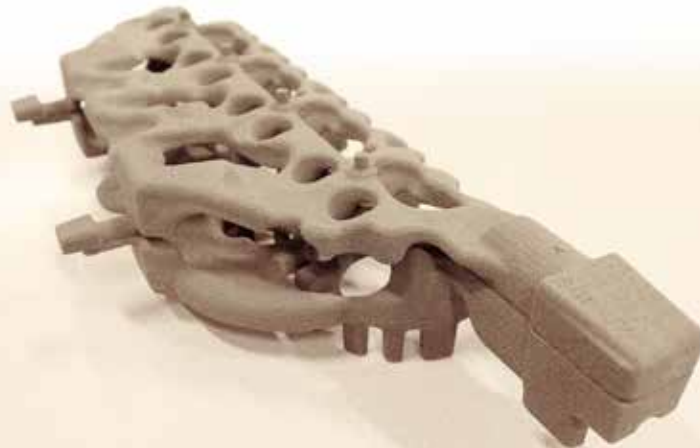
**Each binder system is specifically engineered to provide unique features that will boost your coremaking operation to the next level.**

## **SIGMA CURE 127 PT1 SIGMA CURE 217 PT2**

Product Performance Features:

- High performance PUCB binder system
- High out-of-the-box tensile strengths
- Excellent binder system for tight dimensional tolerance castings
  - Helps to minimize shrinkage defects associated with PUCB systems
- Excellent option for high value, high production aluminum applications
- Good bench life performance
- Can perform with ferrous alloys
- Excellent option for Semi-Permanent Mold (SPM) applications that exhibit low condensables

In addition to increasing the quality of your intricate castings, this dimensionally stable material with high pressure resistance can be stored for long periods of time.



## **SIGMA CURE 135 PT1 SIGMA CURE 235 PT2**

## **SIGMA CURE 135 PT1 SIGMA CURE 210MOD PT2**

## **BIOCURE 815 PT1 BIOCURE 315 PT2**

## **BIOCURE 815 PT1 SIGMA CURE 210MOD PT2 (Hybrid)**

Our family of cold box systems are designed to:

- Increase coremaking productivity
  - Fastest cycle-to-cycle
  - Fast curing speed
  - Outstanding wipe-off properties
- Reduce downtime at coremaking
  - Avoid dumping unnecessary sand from hoppers
  - Exceptional release properties
    - BC815/315 (good)
    - SC135/210MOD (better) >
    - SC135/235 (best) >
- Improve hot strength for Fe applications (\*SC 210MOD)
- Low HAPs & VOC (\*Biocure)
- Preserve excellent core quality and consistency for core storage even when H<sub>2</sub>O coatings are used (\*Biocure)
- High out-of-the-box strengths (\*Hybrid system)
  - Excellent bench life compare to other standard systems