

## DESIGN AND PRODUCE HIGHER QUALITY AND MORE COMPLEX PARTS

To successfully compete in today's tough global market, foundries must be able to produce increasingly more complex parts. The GMBOND® Process, makes core removal much easier than traditional binders, so casting designs with closer tolerances, thinner walls, and complex core geometries are easier to achieve than ever before.

GMBOND® Sand Binder breaks down easily and is water soluble, so cores can be removed without damaging intricate parts. Fewer scrapped parts adds up to less wasted time and money.

GMBOND® Sand Binder is not thermoplastic, so does not deflect or warp upon heating like other thermoset resin systems. Due to the semi-crystalline structure it gains while curing, the GMBOND® Process demonstrates less thermal expansion change when compared to conventional systems. Higher value-added parts can be made without the need to follow up with costly machining operations.

- Dissolves in water, so every grain of sand is easily removed.
- Lighter parts are possible because thinner casting walls can be made.
- Less GMBOND® Sand Binder is required to achieve strengths equal to traditional binders.
- Cores can be removed using wet or dry methods, offering process engineers options when designing foundry operations that are more productive and competitive.

### TESTED AND PROVEN BY INDUSTRY LEADERS

After extensive testing of the GMBOND™ Process, The Teksid Aluminum Foundry in Carmagnola, Italy, and General Motors found its shakeout characteristics superior and concluded that cores made with the GMBOND® Sand Binder "enable the efficient production of safety-critical and delicate parts as well as large castings such as engine blocks with fewer manufacturing steps and less energy." For the complete technical paper, visit [www.gmbond.com](http://www.gmbond.com).

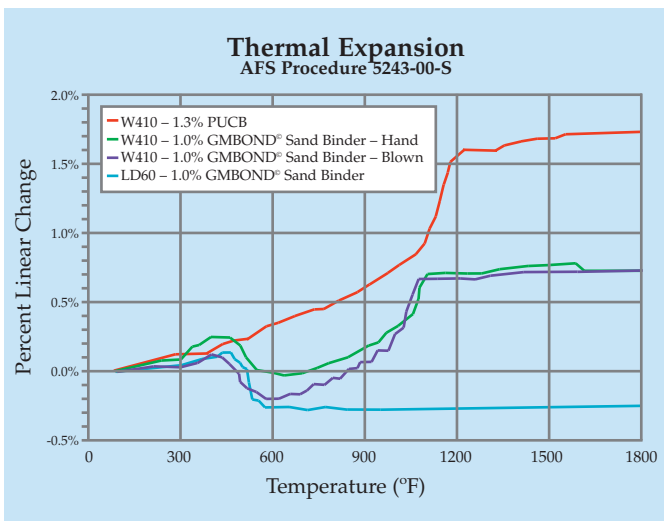


Photo courtesy of General Motors



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800-956-0399 info@gmbond.com www.gmbond.com