



TECHNICAL DATA

Flo-Carb®

Flo-Carb® is a naturally occurring, high-quality organic material specially processed to improve the properties of green sand systems.

Flo-Carb® improves the flowability of green sand, resulting in a lower energy requirement for forming dense molds with uniform hardness. Mechanical penetration and oversized castings resulting from soft molds can be reduced. The tendency for sand to stick and bridge in sand hoppers and bucket elevators can be alleviated.

With Flo-Carb® included in the system sand, shakeout is improved compared to most carbonaceous additives. Sand loss is reduced when spent molds readily break down.

Features and Benefits

Flo-Carb® is an alternative sand additive that may offer considerable process improvement and cost savings potential. Listed below are some of the benefits we have seen with this product.

- Lowers clay viscosity
- Improves sand flowability
- Increases mold permeability
- Reduces free water defects
- Improves shakeout
- Can allow for the use of more western bentonite
- Reduces smoke on cooling lines and at shakeout
- A low emission alternative to large coal additions
- Reduces sand carry-out Lowers mulling energy required for clay development
- Improves sand system performance during hot sand conditions
- Improves clay efficiency thereby lowering clay consumption, often significantly
- Increases green compression strength, relative to compatibility
- Reduces moisture loss due to evaporation in green sand

Physical Properties

Property	Value
Color	Brown/Black
Bulk Density	40 – 45 lbs./ft ³
Fineness	Less than 10% on U.S. #40 sieve
Solubility	85% average
Ash Content	15 – 20%
VCM	45 – 50% as received

All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use. All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. NEITHER MINERALS TECHNOLOGIES NOR ANY OF ITS AFFILIATES MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. Inconsistent terms and conditions contained in the buyer’s purchase order shall not be binding on MINERALS TECHNOLOGIES unless reflected in writing signed by MINERALS TECHNOLOGIES’ representative. The information contained herein is not to be copied or otherwise used in any publication in whole or in part, without written permission from MINERALS TECHNOLOGIES.

MTI Metalcasting | American Colloid Company
35 Highland Avenue, Bethlehem PA 18017 U.S.A.
800.426.5564 www.mtmetalcasting.com

