

FLO-CARB™

PRODUCT DESCRIPTION

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.

FLO-CARB™ FEATURES

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
- Lowers mulling energy required for clay development
- Improves clay efficiency thereby lowering clay consumption, often significantly
- Increases green compression strength, relative to compactability
- Increases mold permeability
- Reduces moisture loss due to evaporation in green sand
- Reduces free water defects
- Improves sand system performance during hot sand conditions
- Improves shakeout
- Reduces sand carry-out
- 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

SPECIFICATIONS

Color	Brown/Black
Bulk Density(lbs/ft³)	40 – 45
Fineness (%)	less than 10 on U.S. #40 sieve
Solubility (%)	85 average
Ash Content (%)	15 – 20
VCM (% as received)	45 – 50
Moisture (%)	8 – 12
pH	6 – 8

Rev. 7/2009

Disclaimer: The information and data contained herein are believed to be accurate and reliable. ACC makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information