



FUSED SILICA ADVANCED SHELL SYSTEM WDS3

INTRODUCTION

Christy Minerals Fused Silica Advanced Shell Systems WDS3 is a specially designed high-performance flour blend for investment casting backup slurries. WDS3 was codeveloped with Nalco as part of a Wide Distribution Slurry (WDS) program to solve foundry problems with positive metal scrap and shell cracks. A patented dry blend of fused silica and high-performance additives, WDS3 offers increased shell build and improved permeability. This can potentially reduce the number of backup dips required and help minimize autoclave shell cracking. Because each foundry has different requirements, WDS3 is engineered with built-in flexibility and can be adjusted for specific application needs. We will collaborate with you to optimize the application of WDS3 for your process.

WDS3 is packaged in 55 lbs. (25 kg) paper bags or 2,200 lbs. (1,000 kg) tote sacks.

FEATURES AND BENEFITS

- Improved permeability to help reduce non-fill and autoclave cracking
- Non-fiber-based shell system optimized for parts with difficult geometries and detail
- Improved knock out for easier shell removal
- Unique slurry rheology to substantially shorten drain times and help increase foundry output
- Optimized shell build for uniform coverage of corners and edges without neglecting the flow needed to fill slots and holes in difficult castings
- Improved load carrying ability to reduce handling damage and cracking



FUSED SILICA FOR INVESTMENT CASTING SHELLS

We supply high purity fused silica flour and advanced shell system flour blends that are used in investment casting shells. Our revolutionary furnace design helps prevent the raw silica sand from becoming contaminated during processing – resulting in a finished product that is 99.6% pure, while increasing productivity tenfold over conventional furnaces. Christy Minerals Fused Silica Flours and Grains are optimized for consistency from batch to batch, to help you produce components with a high degree of dimensional accuracy. Christy Minerals fused silica products are available in both standard and custom particle sizes and distributions, and our experts will collaborate with you to optimize your application. In addition, we can provide traceability data throughout our process, from the arrival of the high-purity sand at our facility to each bag of finished fused silica in your inventory.

PRODUCT STORAGE AND SAFETY

Storage: Store in a dry location and protect from the elements. Store away from oxidizing agents. See the product Safety Data Sheet (SDS) for additional information.

Safety: See product SDS for additional information.

The above data are based on controlled testing. Individual test results may vary. These data are for informational purposes only, may not be used for specification purposes, and do not form the basis of any warranty. NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE MADE REGARDING THE DATA OR PRODUCTS SHOWN ABOVE, AND ALL SUCH WARRANTIES ARE HEREBY DISCLAIMED.

