



FIRST FUSED SILICA ADVANCED SHELL SYSTEM WDS2

INTRODUCTION

Christy Minerals Fused Silica Advanced Shell System WDS2 was the first Engineered Shell System specially designed as a high-performance flour blend for investment casting backup slurries. WDS2 was developed as part of a Wide Distribution Slurry (WDS) program to solve foundry problems with positive metal scrap and shell cracks. Engineered as a replacement for a 120-shell backup slurry, WDS2 can help reduce scrap cost and can potentially reduce the number of backup dips required. It has excellent flow characteristics, resulting in uniform shell build, especially around corners and in difficult to-invest part designs.

Because each foundry has different requirements, WDS2 is engineered with built-in flexibility and the slurry viscosity can be adjusted for specific application needs. We will collaborate with you to optimize the application of WDS2 for your process.

WDS2 is packaged in 55 lbs. (25 kg) paper bags or 2,200 lbs. (1,000 kg) tote sacks.

FEATURES AND BENEFITS

- Optimized slurry flow characteristics for improved shell build in slots and holes
- Shell build that provides uniform coverage of corners and edges, while still addressing the flow needed to fill slots and holes in difficult investment castings
- Delivers a consistent shell build at a wide range of slurry viscosities
- 5-10% lower shell weight can result in lower shell costs



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.

