

# Washington Mills Grains & Powders for Investment Casting



As one of the largest manufacturers of fused minerals and abrasive grains in the world, Washington Mills offers high quality raw materials for the investment cast industry. Our technical expertise in manufacturing high quality fused minerals ensures that you get the best raw materials for both your shell building and parts cleaning needs.

## **SHELL BUILDING FUSED MINERALS**

Choosing the right fused minerals for your shell building process is essential to the integrity of your shell. Washington Mills' Fused Mullite, White Fused Aluminum Oxide and Fused Silica are light weight, high purity and high strength materials that withstand very high temperatures throughout the firing and pouring process.

- **Duramul - Fused Mullite**
- **Duralum Special White - White Fused Aluminum Oxide**
- **Fused Silica**

## **PARTS CLEANING ABRASIVES**

Washington Mills Brown and White Fused Aluminum Oxide blasting abrasives give your cast part the perfect finish. Blastite® BT and Duralum Special White grains are carefully analyzed for lot-to-lot uniformity and closely inspected for grain characteristics to ensure that you get optimal performance in blasting the final part.

- **Blastite® BT - Brown Fused Aluminum Oxide**
- **Duralum Special White - White Fused Aluminum Oxide**

Washington Mills is prepared to service your investment cast raw material needs. Contact us today to learn more about our products.  
tel: 716-278-6600 or toll free: 800-828-1666

**WASHINGTON MILLS**

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## SHELL BUILDING

Duramul, White Fused Aluminum Oxide, Fused Silica

### FUSED MULLITE

#### **DURAMUL – Fused Mullite for Investment Cast Shell Building**

Duramul is an optimal material for shell building. It is light weight, high purity, high strength and thermal shock resistant. It is produced by the electric furnace fusion of Bayer process alumina and high purity silica. There is an excess of aluminum oxide in Duramul above the normal mullite ratio ( $3 \text{ Al}_2\text{O}_3 : 2 \text{ SiO}_2$ ) to ensure that all of the  $\text{SiO}_2$  is contained within the mullite phase and is not present in the glass phase. Duramul receives high intensity magnetic treatment to remove virtually all of the magnetic iron present.

### WHITE FUSED ALUMINUM OXIDE

#### **Duralum® Special White – Fused White Aluminum Oxide for Investment Cast Shell Building**

Duralum Special White is a virgin fused white aluminum oxide for investment cast shell building. It is a high purity, medium density material that is highly effective when used as a refractory coating.

### FUSED SILICA

#### **Fused Silica – Fused Silica for Investment Cast Shell Building**

Our Fused Silica is over 99% amorphous and has an extremely low coefficient of thermal expansion and a high resistance to thermal shock. It is an excellent material for use in applications that require a consistent, high purity product with low thermal expansion.

## PARTS CLEANING

White Fused Aluminum Oxide & Brown Fused Aluminum Oxide

### BROWN FUSED ALUMINUM OXIDE

#### **Blastite® BT – Brown Aluminum Oxide for Investment Cast Parts Cleaning**

Blastite® BT is an exceptionally tough, hard and productive brown aluminum oxide blasting abrasive. Blastite® BT cleans investment castings quickly and precisely.

### WHITE FUSED ALUMINUM OXIDE

#### **Duralum® Special White – White Aluminum Oxide for Investment Cast Parts Cleaning**

Duralum® Special White is a fused white aluminum oxide that is used as a high purity blasting abrasive to clean investment cast parts. It is the perfect blasting abrasive for cleaning applications where a high purity material is required.

Contact us today and let Washington Mills service your investment casting material requirements

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