

## **CYCLONE WITH F.C. ALUMINA**

**FC. ALUMINA** - fusion cast Alumino-Zirconia-Silica (AZS) material is a unique ceramic with physical and chemical properties that resist a variety of extreme service conditions. It is used daily in many demanding industrial applications where other common material often fail due to wear.

Industries choose FC ALUMINA ceramic because it has excellent abrasion resistance, very high strength and outstanding resistance to acids and chemicals. Added to these, it resists attack by most solvents, slag and molten salts.

FC ALUMINA solves problems that other metals and other types of ceramics cannot and usually at a much lower cost. It can be fabricated into a wide variety of shapes and sizes.

FC ALUMINA surpasses all common metals in refractoriness, abrasion and corrosion resistance.

### **Abrasion Resistance**

The abrasion resistance of FC ALUMINA is excellent in impinging, scrubbing, impact and sliding abrasion service. A high performance factor can be expected when wear at high temperatures are experienced.

**HOFMANN ENG. AND MKTG. PVT. LTD**

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### **Advantages**

Nearly less joints and hence can last longer than Alumina. Material flow will be smooth and hence performance of cyclone will be higher.

### **Design Flexibility**

Complex shapes can be cast without much difficulty. Generally FC ALUMINA is used as produced. Mating surfaces may be diamond finished.

### **Properties**

- High strength at room and elevated temperatures.
- Superior Wear resistance
- Resistance to attack by many solvents, slag, petroleum products
- High impact resistance

### **Properties**

#### **- Chemical Composition**

Alumina	50%
Zirconia	32%
Silica	15%
- Bulk Density	3.5 gm/cc
- App. Porosity	< 1%
- Use Temp.	Up to 1600 °C