



Product Data Sheet

# ILMENITE SAND

## Average technical data

### Description

Ilmenite Sand is a natural titanium oxide/iron oxide mineral milled to a heavy dark brown to black powder. Suitable for use as an additive to ceramic glazes and as a heavy dark filler in other products where required.

### Particle Size

Microns	% Retained
600	0-2
425	0-3
300	1-5
250	2-8
212	2-10
150	15-25
106	30-40
75	15-25
63	5-15
-63	1-5

Typical D50: 115 - 135 um

### Typical Composition %

TiO <sub>2</sub>	55.0-60.0
Fe <sub>2</sub> O <sub>3</sub>	13-21
FeO	16-24
Al <sub>2</sub> O <sub>3</sub>	0.5-0.9
CaO	0.00-0.03
Cr <sub>2</sub> O <sub>3</sub>	0.16-0.20
MgO	1.0-1.3
MnO	0.28-0.38
P	0.04-0.07
S	0.00-0.03
SiO <sub>2</sub>	0.2-0.8
Th (ppm)	60-120
U (ppm)	5-20
V <sub>2</sub> O <sub>5</sub> (ppm)	0.25-0.35
ZrO <sub>2</sub>	0.03-0.10

### Physical Properties

Hardness Moh's	5-6
S.G.	4.2 - 4.5
Bulk Density	2350 - 2650kg/m <sup>3</sup>
Luster	Metallic
Colour	Dark Grey/Black Powder
Moisture	0.05-1.00%

## **USES**

### **Coatings**

Industrial Coatings  
Corrosion Resistant Coatings  
Sound Dampening Coatings  
Protective Coatings

### **Pigments**

TiO<sub>2</sub> Feedstock  
Special Effects

### **Plastics**

Special Effects Pigment

### **Foundry & Refractory**

Furnace Lining Flux (steel industry)

### **Ceramics**

Glazes

### **Abrasion & Friction**

Sand Blasting  
Abrasion Media

### **Welding**

Electrode Coating

### **Metals**

Titanium

## **BENEFITS**

Fire Resistant  
Metallic Luster  
Inert  
Corrosion resistance  
Chemical resistance  
Resists mould and mildew  
Opacifier  
High Hardness  
Abrasion resistance  
Sound Dampening  
High Particle Strength  
Low water absorption  
Low shrinkage  
Improved impact resistance  
Improved durability  
Magnetic Properties

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