



## ZYA-Pure™

GRAINS & POWDERS

- + High purity  $\text{SiO}_2$
- + High quality standard
- + Consistent chemistry
- + Controlled size distribution





# ZYA-Pure

## Grains & Powders

ZYA-Pure™ Grains and Powders are high purity, electrically fused silica: produced and supplied from the Vesuvius Fused Silica crushing plant in China.

### Applications

Vesuvius Fused Silica Grains and Powders are used in a number of application industries, such as:

- + Semiconductor
- + Photovoltaic
- + Glass
- + Ceramics
- + Steel

ZYA-Pure™ Grains and Powders offer the following benefits:

- + High purity SiO<sub>2</sub>
- + Consistent chemistry
- + Homogeneous particule size
- + Magnetic separation
- + Product traceability
- + ISO certification.

### Product Range

#### ZYA-Pure™ Grains

4+10 mesh	4+20 mesh	10+20 mesh	20+50 mesh	50+100 mesh	100+200 mesh
RAW500534	RAW500034	RAW500549	RAW500044	RAW500056	RAW500062

#### ZYA-Pure™ Powders

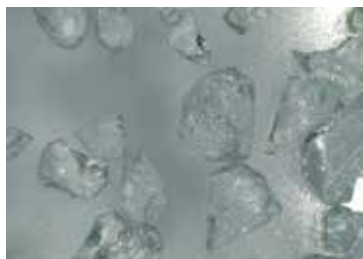
-140 mesh	-200 mesh
RAW500567	RAW500076

## Technical Specifications

Chemical properties (max ppm)		Physical properties
TiO <sub>2</sub> : 15,0	CaO: 50,0	Moisture Content: 0,05 %
Al <sub>2</sub> O <sub>3</sub> : 140,0	Na <sub>2</sub> O: 50,0	Crystallinity: 0,5% max
ZrO <sub>2</sub> : 5,0	MgO: 20,0	Density, Grain: 2,17g/cm <sup>3</sup>
K <sub>2</sub> O: 50,0	BaO: 5,0	

ZYA-Pure™ Powders	-140 mesh	-200 mesh
SiO <sub>2</sub>	99,92% min	99,94% min
Fe <sub>2</sub> O <sub>3</sub>	Typical 200 ppm	

ZYA-Pure™ Grains	4+10 mesh	4+20 mesh	10+20 mesh	20+50 mesh	50+100 mesh	100+200 mesh
SiO <sub>2</sub>	99,96% min	99,96% min	99,96% min	99,95% min	99,95% min	99,94% min
Fe <sub>2</sub> O <sub>3</sub>	Typical average: 50,0 ppm. Vesuvius can study extra pure material request and supply a final product with a specific maximum ppm value.					



## General FAQ

### Where can I find your products?

ZYA-Pure™ Grains and Powders are available worldwide.

### How do I place an order?

Contact your local representative (refer to back page) or simply fill out the contact form on Vesuvius website: [www.vesuviusinquiry.com](http://www.vesuviusinquiry.com).

### What is the standard delivery time for orders?

Typically, the lead time ex-work is 24h to 1 month depending on the quantity ordered and the country.

### What is your standard packaging?

Our standard packaging is either 1,1 MT plastic big bag or 25 kg paper bag.

### Are your products harmful to employees or environment?

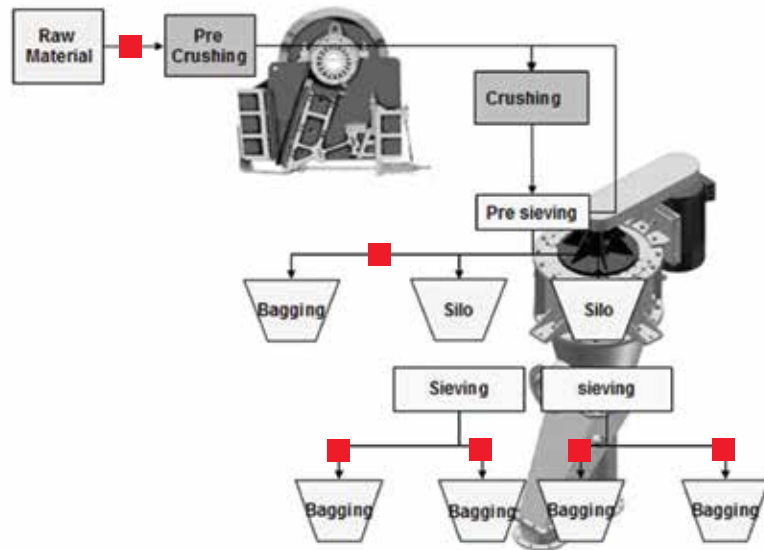
Our MSDS 27 explains the required personal and environmental protection.

# ZYA-Pure

## Grains & Powders

### Manufacturing Process

- Quality control: Vesuvius controls each crucial step of its manufacturing process to guarantee the best quality of fused silica grains and powders.



### Quality Control

It is widely acknowledged that a good Quality Management System improves the quality of products and services produced. Vesuvius not only controls each step of its manufacturing process to guarantee the best quality of fused silica grains and powders, but also the sourcing of the raw material.

We basically make 3 different types of quality check :

1. Chemistry (atomic absorption made with mass spectrometer)
2. Grading (with sieve set and laser analyzer)
3. Free iron (with magnetic analyzer)

The physical and/or chemical properties and specifications of the products set forth herein represents typical average results obtained in accordance with generally accepted standard test methods conducted under controlled conditions and are subject to normal manufacturing variations. Vesuvius reserves the right to modify the properties and specifications at any time, without prior notice. This brochure is not a warranty of any kind, either expressed or implied. Any warranty of merchantability or of fitness for a particular purpose is expressly disclaimed. Users expressly assume all risks and liabilities arising from the use of reliance upon this information. All product names in this brochure are trademarks or registered trademarks of the Vesuvius Group of Companies.

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