



# Luoyang Zhongsen Refractory Co., Limited

Yaowan Village, South Dukang Road, Yichuan County, Luoyang City, Henan Province, P.R. CHINA  
TEL: 0086-379-69351288 WEB: www.zhongsen-refractory.com

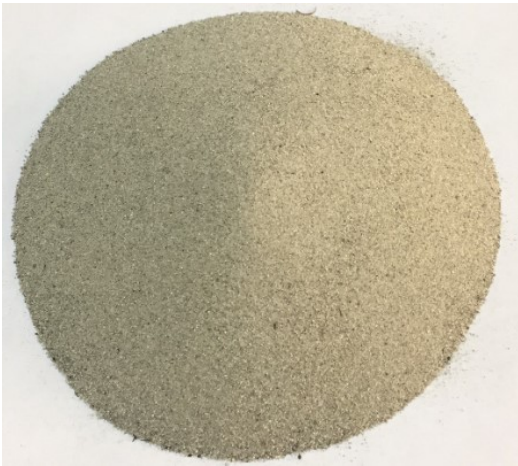
## Certificate of Analysis-Microsphere

### General Information

Product : Microsphere, Cenosphere for refractories, heat resistance, oilfield etc.

Country of Origin : China

Picture of Product:



### Physical Specifications & Package

Color : Light Grey White  
Configuration : Spherical Powder/Fines  
Specific Resistance : 1010-1013( $\Omega$ .CM)  
Hardness : 6-7 MOSH  
PH Value : 6  
Bulk Density : 0.3-0.5 g/cm<sup>3</sup>  
Refractory Temperature :  $\geq 1500^{\circ}\text{C}$   
Thermal Conductivity : 0.000903-0.0015(m<sup>2</sup>/h)  
Heat Conductivity Coefficient : 0.054-0.095(w/m.k)  
Compressive Strength :  $\geq 35\text{Mpa}$   
Refractive Index : 1.54



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LOI	: 1.33%
Floating Rate	: 98.1%
Oil Absorption Rate	: 0.68-0.69g(oil)/g
Package	: 500kg or 600kg Jumbo Bag

## Chemical Specifications

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	SO <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O
52-61%	28-35%	2-4%	0.1-0.2%	0.2-0.4%	0.8-1.2%	0.5-1.1%	0.3-0.9%

## Typical Chemical Composition

Al <sub>2</sub> O <sub>3</sub>	: 33.53%
SiO <sub>2</sub>	: 57.85%
TiO <sub>2</sub>	: 1.05%
Fe <sub>2</sub> O <sub>3</sub>	: 2.23%
CaO	: 0.78%
MgO	: 0.56%
K <sub>2</sub> O	: 1.35%
Na <sub>2</sub> O	: 0.54%
C	: 0.16%

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