



# 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

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## **PRODUCT DATA SHEET & MATERIAL SAFETY DATA SHEET**

### Identification of the Chemical and the Origin

Product	: Tabular Alumina for Refractories
Country of Origin	: China
Manufacturer of Material	: Luoyang Zhongsen Refractory Co., Limited
Features	: Good Al <sub>2</sub> O <sub>3</sub> Crystal Shape, High Purity, Volume Stability
Picture of Product:	



### **Manufacturing Process & Applications**

Tabular Alumina is a type of sintered calcined alumina with alpha aluminium oxide ( $\alpha$ -Al<sub>2</sub>O<sub>3</sub>) more than 99%. It is a high temperature resistant, corrosion resistant, heat shock resistant, high strength, chemically stable material. It is produced in high temperature, which makes its alpha aluminium oxide grow into big grains. Properties are primarily those of alpha alumina with a purity of 99.8%: refractoriness, hardness, chemical inertness, thermal conductivity and dielectric rigidity at high temperature. It also has ceramic properties: high density, low open porosity, dimensional stability, creep and abrasion resistance, exceptional resistance to thermal shock, a surface coarseness which gives good bonding with matrices, and reproducible particle size distribution. These properties explain its development as a refractory raw material, and its use in steel making and in electric furnaces, especially in Japan. It can be used in ceramics as filters for molten metal, fillers for epoxy resins and polyester, inert catalyst supports and heat conductors. There is substantial demand for Tabular alumina: in excess of 500 000 Tpa.

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## Physical Specifications & Package

Main Content	: $\alpha$ -Al <sub>2</sub> O <sub>3</sub>
Specific Gravity	: $\cong$ 3.50 g/cm <sup>3</sup>
Hardness	: $\cong$ 9 MOSH
Color	: White
Melting Point	: 2350°C
Linear Expansion Coefficient	: 7-9 under 0-1600°C
Loss on Ignition(LOI)	: $\cong$ 1.5%
Porosity	: $\cong$ 5%
Sizes Available	: 0-1mm, 1-3mm, 3-5mm, 5-8mm, 8-12mm, 0-0.2mm, 0.2-0.5mm, 0.5-1mm, 100mesh, 200mesh, 325mesh, other finer powder etc
Package	: Jumbo Bag, 25kg Bag and 40 Bags on a Pallet

## Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O
$\cong$ 99%	$\cong$ 0.3%	$\cong$ 0.2%	$\cong$ 0.4%

## Health Hazard Information

### Health Effects

Swallowed	: May cause harm to body, seek medical help.
Eye	: Irritation may result if recommended exposure limits are Exceeded
Skin	: No harm to skin.
Inhaled	: Dust in excess of recommended exposure limits may result In irritation of the respiratory tract.

## First Aid

Swallowed	: May cause harm to body, seek medical help.
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Eye : Rinse with water, seek medical help if necessary.

Skin : No harm to skin.

Inhaled : Remove to fresh air

## Advice to Doctor

Chronic lung conditions may be aggravated by exposure to high concentration of dust.

## Precautions for use

Exposure Limits : Nuisance Dust

Ventilation : Local exhaust recommended in case of dusting

Personal Protection : Approved eye goggles & dust mask to be worn in dusty  
Conditions

Flammable : Non-flammable

## Safe Handling Information

Storage and Transport : Care should be taken to avoid dusting

Spills and Disposal : Spillage may result in slippery conditions

Fire / Explosion Hazard : None

Other Information : (Material to avoid) – Hydrofluoric Acid

Use standard good manufacturing practices when handling  
Material.

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