



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

PRODUCT DATA SHEET & MATERIAL SAFETY DATA SHEET

Identification of the Chemical and the Origin

Product	: Compact Fused Alumina for Refractories
Other Names	: Dense Fused Alumina, High Density Fused Alumina
Country of Origin	: China
Manufacturer of Material	: Luoyang Zhongsen Refractory Co., Limited
Features	: High Refractory Temperature, High Density, Low Porosity
Picture of Product:	



Manufacturing Process & Applications

Compact Fused Alumina is made of High Purity Alumina Powder (Aluminium Oxide) and Reducer/Deoxidizer melted in electric arc furnace under high temperature. The materials are fused, cooled down, crushed and milled into various sizes for different refractory applications. Featuring High Content of Aluminium Oxide (Al_2O_3 96% min), Low Porosity (4% max), Acid & Alkali Resistance, Wear Abrasion Resistance, Good Volume Stability under high temperature, Compact Fused Alumina is a high grade refractory raw material among artificial corundum products, widely used in metallurgical, steel making, petrochemical, ceramic, glass, cement and building industries, mainly used as refractory ramming mass of blast furnace tapping launder, the castable filling, as well as good materials for the producing steel elongated nozzle, sliding plate and the varieties of corundum bricks.



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Physical Specifications & Package

Main Content	: α -Al ₂ O ₃
Specific Gravity	: ≥ 3.90 g /cm ³
Hardness	: ≥ 9 MOSH
Color	: Light Brown, Grey
Melting Point	: 2350°C
Linear Expansion Coefficient	: 7-9 under 0-1600°C
Magnetic Contents	: $\leq 0.005\%$
Porosity	: $\leq 2\%$, typically 0.8%
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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Na ₂ O	MgO	C
$\geq 99\%$	$\leq 1\%$	$\leq 0.15\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.15\%$

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.
