

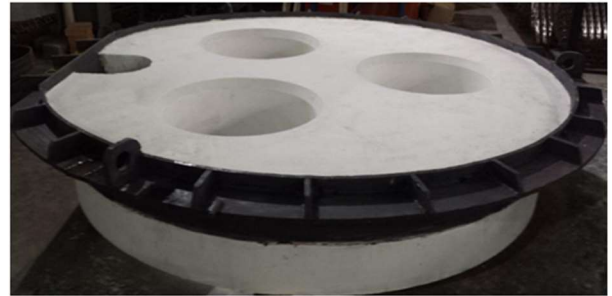
1 Introduction

LISAM™ Spinel is super-ground from spinel with different Al₂O₃ content. It has the excellent performance in the refractories to improve the construction performance, bulk density, strength of room temperature and high temperature, slag resistance and thermal shock resistance.

Alumina-rich spinel: low-cement, ultra-low cement bonded corundum spinel refractories, such as large ladle pouring materials, impact zone at the bottom of the ladle, porous plugs bricks, nozzle blocks, ladle carbon-free prefabricated up and down spouts, molten steel desulfurization spray gun, RH dip tube, CAS dip tube, UT dip tube, electric furnace / LF furnace / VD top precast blocks.

Magnesia-rich spinel: Mg-Al or Mg-Al-carbon unburned bricks, and also an important ingredient component of non-chromium (ultra-low carbon or micro-carbon) unburned refractories introduced on the market in recent years.

2 Application



Electric Furnace Small Furnace Cover



VOD Furnace Cover

3 Storage

Convenient packages of 25kg paper/plastic woven bag as well as 1mt bulk bag are available. Other customized packages are provided upon request.

For best product performance and longer shelf life, re-packing is not recommended.

4 Physical & Chemical Properties

		Spinel micro-fines		Special spinel micro-fines			
Items		LISAM™ 70-325	LISAM™ 90-325	LISAM™ 10A	LISAM™ 23	LISAM™ 70M	LISAM™ 50M
Chemical properties ^[1]							
Al ₂ O ₃	[%]	72.2	88.96	88.18	75.0	25.29	45.50
MgO	[%]	26.14	9.65	10.62	23.50	71.51	51.50
R ₂ O	[%]	0.19	0.23	0.14	0.22	0.22	0.23
SiO ₂	[%]	0.20	0.20	0.14	0.17	0.36	0.29
Fe ₂ O ₃	[%]	0.21	0.17	0.09	0.12	0.25	0.23
Physical properties ^[2-3]							
<45um	[%]	99.5	99.5	99.9	99.9	99.9	99.9
D50	[um]	6.7	6.8	2.6	1.5	1.9	1.9
D90	[um]	17.8	18.1	7.6	7.2	8.3	7.6

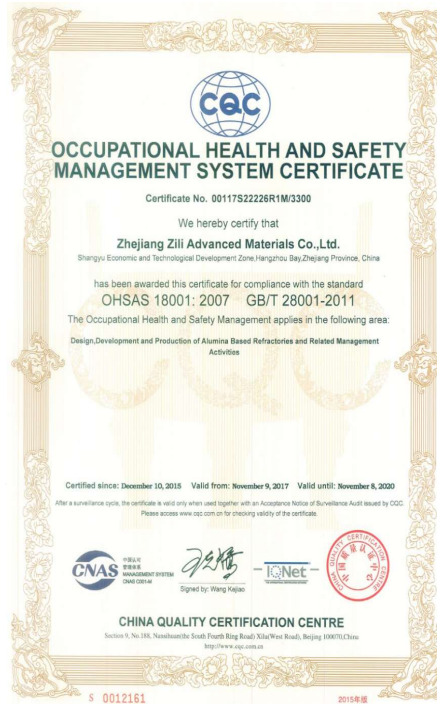
[1]: Thermal Science X-ray Fluorescence Analyzer and Thermo Fisher Scientific Atomic Absorption Spectrometer are used to measure the chemical composition.

[2]: The method of water-washing and screening the fines is used to measure the fraction of ≤45um.

[3]: Mastersizer 3000 Laser Particle Size Analyzer is used to measure the physical particle size distribution D50/D90.

5

Certification



7

Shipping



8

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