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Product Data Sheet
AloxX-Spheres™ 99

1. Description

AloxX-Spheres™ are spherical alumina particles produced in a proprietary process.

AloxX-Spheres™ are used in a range of refractory applications:

- Binders for high alumina castables (free flowing, gunning, shotcreting, etc.)
- Sintering agent for high alumina applications as well as spinel formation
- Applications needing high thermal shock resistance

2. Product features

- Spherical particles
- Easy dispersion
- Excellent particle packing
- Higher solids loading without dilatancy
- High purity
- High sintering capability
- High refractoriness

3. Technical data

Appearance	White powder

Chemical analysis

Element		*Typical*
Al_2O_3	%	> 99.0
Fe_2O_3	%	< 0.05
Na_2O	%	< 0,40
SiO_2	%	< 0,05

Physical data

Properties		
Refractoriness	°C	1960
Melting point	°C	2050
True density	g/cm^3	3.96
Loss on ignition	%	≤ 0.3
Thermal conductivity	W/m·K	5.908
Moh's hardness		9

4. Standard sizes

Our standard sizes include:
< 75 micron (average d_{50}: 30-35 µm)
< 50 micron (average d_{50}: 20-25 µm)
< 20 micron (average d_{50}: 4-6 µm)

Tailor-made particle size distributions are available on request.

5. Packaging

< 20 micron is available in 20 kg bags.
< 50 and < 75 micron are available in 25 kg bags.
Please contact our sales representative for more details.

6. Handling and storage

- Avoid dust generation
- Store material properly, protected from moisture and contamination

7. Health, Safety and Environment

Please consult our Product Safety information on our website: https://www.elkem.com/silicon-products/refractories/specialties/aloxx-spheres/

8. Local Elkem representative

For further information, please contact our local sales representative. Our specialists will assist you in solving individual problems.

All data listed are reference values subject to production-related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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