

Product data sheet

AloxX-Spheres™ 99

Elkem ASA Silicon Products
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Description AloxX-Spheres™ are spherical alumina particles produced in a proprietary process.

Applications 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.

Features Product features include:

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

Chemical analysis & physical data

Appearance	White powder
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Weight%	Typical
Al ₂ O ₃	>99.0
Fe ₂ O ₃	<0.05
Na ₂ O	<0.40
SiO ₂	<0.05

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

Standard sizes

- <75 micron (average d₅₀: 30-35 µm)
- <50 micron (average d₅₀: 20-25 µm)
- <20 micron (average d₅₀: 4-6 µm)

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.

Storage and handling

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

Health, safety & environment

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

Sustainability

For Elkem, sustainability is central to our business strategy. Our mission is to provide advanced material solutions shaping a better and more sustainable future, adding value to our stakeholders globally. We are committed to reduction in embodied carbon emission. For further information, please visit www.elkem.com/sustainability/ or contact us to learn more about our sustainability roadmap.

Additional information and contact

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