



Alumina ceramic tubes & rods Enhanced range - Express service

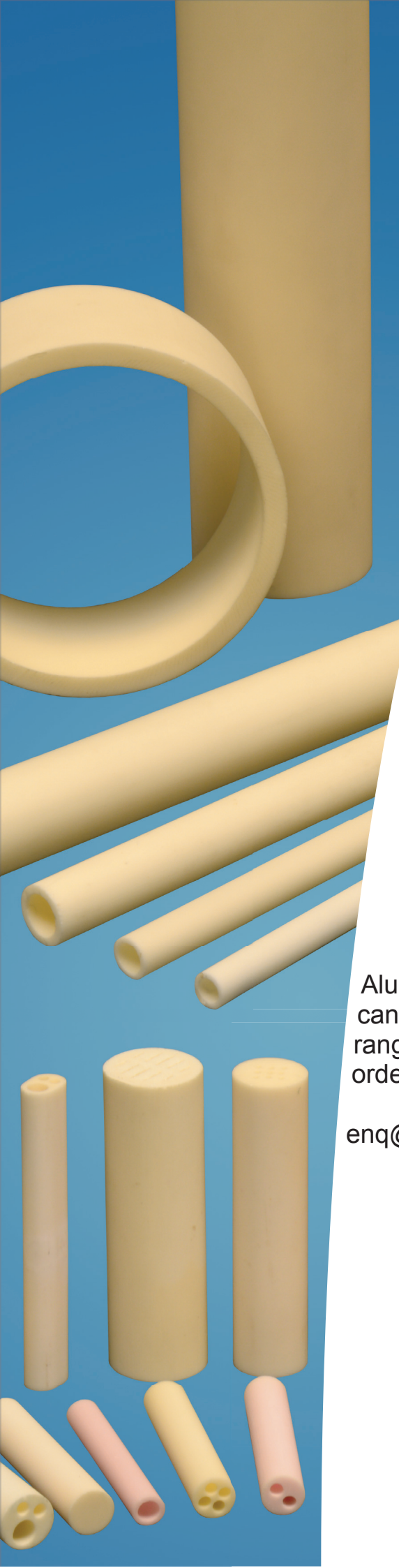
We offer an enhanced range of 99% alumina tubes:

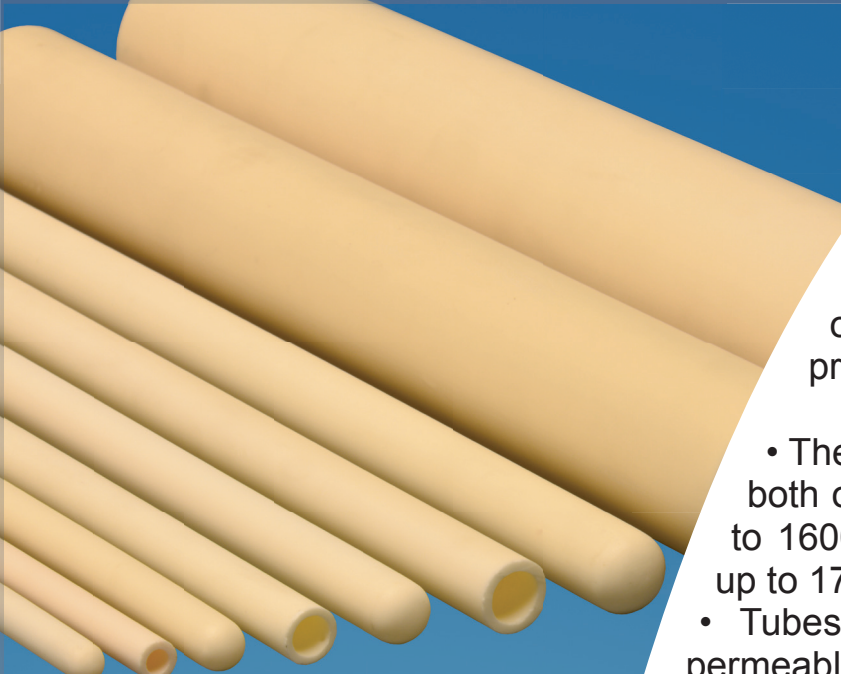
- Open (OBE) and closed (COE) ends
- Wide variety of sizes, cut to custom lengths
- Stock items despatched within 24 hours
- Same day shipping available with express fee
- Custom length tubes despatched within 48 hours

Metric	Imperial
3mm OD/ 2mm ID	0.12" OD/ 0.08" ID
5mm OD/ 3mm ID	0.20" OD/ 0.12" ID
10mm OD/ 6mm ID	0.40" OD/ 0.24" ID
15mm OD/ 11mm ID	0.60" OD/ 0.43" ID
20mm OD/ 15mm ID	0.80" OD/ 0.60" ID
30mm OD/ 22mm ID	1.20" OD/ 0.87" ID
35mm OD/ 27mm ID	1.38" OD/ 1.06" ID
42mm OD/ 30mm ID	1.65" OD/ 1.18" ID

Alumina tubes stock available in 600mm lengths – these can be cut to your length requirement. We also offer a full range of longer tubes and different diameters on a special order basis. Contact our commercial team.

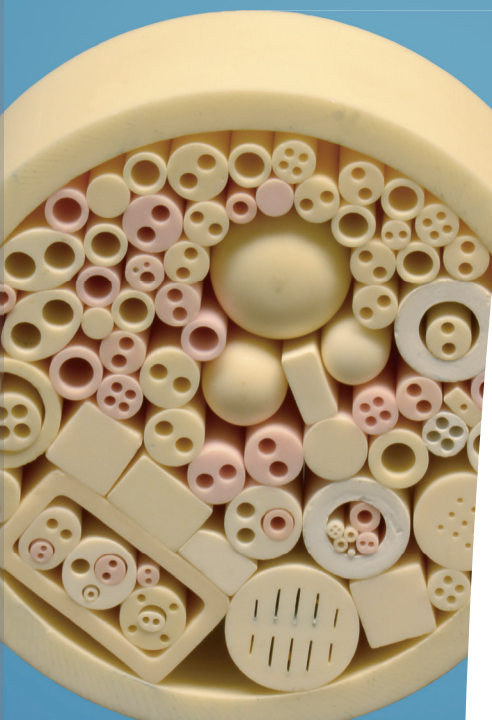
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Alumina tubes and rods are used in a wide variety of applications across numerous user industries as a cost effective yet high performance solution. The combination of key properties makes them a go-to product in many instances.

- Thermal stability – Alumina can be used in both oxidizing and reducing atmospheres up to 1600°C (2910°F) and in vacuum furnaces up to 1750°C (3180°F)
- Tubes are fully dense, providing a non-permeable tube that protects from contamination and can be used to create a gas-tight assembly
- Chemical resistance – Alumina is chemically inert and is not corroded by water or steam. It offers good resistance to strong acids and alkalis at elevated temperatures and is ideal for applications where resistance to corrosive substances is required
- Electrical insulation – Alumina is also widely used as an electrically insulating material. It can be used for insulators operating at elevated temperatures (e.g. furnace lead-in tubes, fuel cells)



Property	Typical Value	Units
Max. temperature of use	1600 (2910°F)	°C
Bulk density	3.8	g/cm ³
Open porosity	<0.1	%
Modulus of elasticity	300	GPa
Bending strength	300	MPa
Thermal conductivity	25	W/mK
Thermal expansion	8	X10 ⁻⁶ /K
Volume resistivity	10 ¹⁴	Wcm
Dielectric constant	10	-
Dielectric strength	20	kV/mm

For more information please contact our team at enq@ipsceramics.com or usa@ipsceramics.com

