

Alumina Ceramic Thermocouple-protection Tube

Closed One End



chemical composition and physical properties

	95series	99series	99.5series
Al ₂ O ₃ (%)	≥95	≥99	≥99.5
SiO ₂ (%)	<0.3	<0.2	<0.04
Fe ₂ O ₃ (%)	<0.1	<0.1	<0.05
Alkaline substances (%)	<0.1	<0.1	<0.08
Density (g/cm ³)	3.7	3.87	3.89
Hardness (MOhs)	8.8	9	9
Expansion coefficient (10 ⁻⁶ K ⁻¹)	8.5	8.1	7.6
Operating temperature in short time (°C)	1650	1800	1850
Operating temperature in long time (°C)	1530	1650	1700
Color	pink ,white	white,ivory	ivory

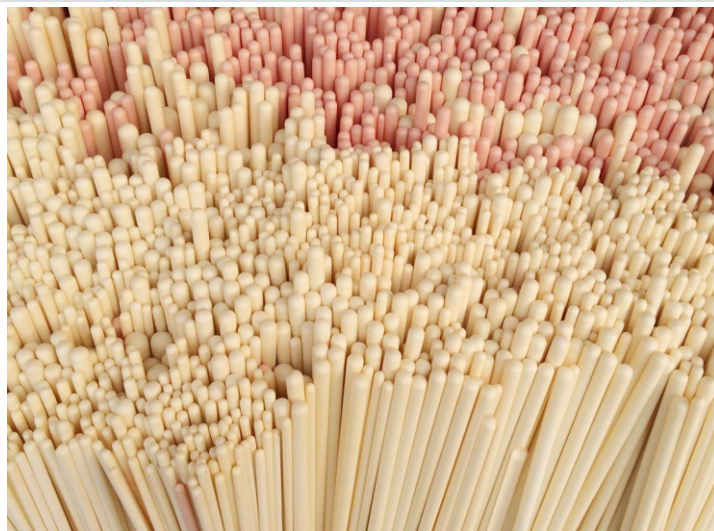
standard dimension (mm)

Outer diameter	6	8	10	12	16
Length	1000	1500	2000	2000	2500
Outer diameter	20	25	30-35	40-45	50-55
Length	2500	2500	2000	2000	2000
Outer diameter	60-65	70-75	80-85	90-95	100
Length	2000	2000	2000	2000	1700

The tubes of the above sizes , we have available stocks. We can also custom cut shorter lengths to your specifications. Other sizes available on request.

Alumina ceramic thermocouple-protection tubes are considered to have better mechanical strength and better chemical resistance. Alumina ceramic thermocouple-protection tubes also have excellent abrasion resistance. Alumina ceramic thermocouple-protection tubes are considered to be gas tight so they make excellent primary protection tubes. Alumina ceramic thermocouple-protection tubes can be for primary and secondary protection tubes on Noble Metal (Platinum based) thermocouples.

氧化铝陶瓷保护管 封头管



产品技术指标

	95series	99series	995series
Al ₂ O ₃ (%)	≥95	≥99	≥99.5
SiO ₂ (%)	<0.3	<0.2	<0.04
Fe ₂ O ₃ (%)	<0.1	<0.1	<0.05
碱性物质 (%)	<0.1	<0.1	<0.08
密度 (g/cm ³)	3.7	3.87	3.89
硬度 (MOHs)	8.8	9	9
膨胀系数 (10 ⁻⁶ K ⁻¹)	8.5	8.1	7.6
短时使用温度 (°C)	1650	1800	1850
长时使用温度 (°C)	1530	1650	1700
颜色	粉红、白色	白色、象牙黄	象牙黄

产品尺寸(mm)

外 径	6	8	10	12	16
长 度	1000	1500	2000	2000	2500
外 径	20	25	30-35	40-45	50-55
长 度	2500	2500	2000	2000	2000
外 径	60-65	70-75	80-85	90-95	100
长 度	2000	2000	2000	2000	1700

以上尺寸，常年库存现货，可按照要求切割长度。也可按照客户要求订制其他尺寸。

氧化铝陶瓷保护管具有良好的气密性和较高的机械强度，耐腐蚀耐高温，主要用于对测温元件的保护，使测温元件与外界隔离，减小或防止元件在使用过程中被外界物质所侵蚀、氧化或碰损。