

Ceramic Roller



With good thermal shock resistance and high bending strength, AMI[®] Ceramic Roller are suitable for roller kiln in tile production, or act as support pipe and brace in various furnace and ovens.

Model: S200, S400, S600

Dimension: Dia.16-120mm, length up to 4800mm

Square beam, perforated pipe, special shape roller are available.

Package: Wooden Case



Parameters of AMI[®] Ceramic Roller

	Item	S200	S400	S600
Properties	Bulk Density (g/cm ³)	≥2.4	≥2.5	≥2.55
	Apparent Porosity (%)	22-24	16-20	12-16
	Water Absorption %	8-10	5-8	5-7
	Bending Strength(Mpa) (R.T.)	45-55	50-60	55-65
	Bending Strength(Mpa) (1350 °C)	35-45	45-55	50-60
	Coefficient of Thermal Expansion (x10 ⁻⁶ /°C)	5.8	5.7	5.6
	Thermal Shock Resistance	Excellent	Very good	Good
	Max. Working Temperature (°C)	1250	1300	1350
	Modulus of Elasticity(Gpa)	≥110	≥115	≥120
	Refractoriness (°C)	≥1700	≥1720	≥1750
	Composition	Al ₂ O ₃ (%)	72-75	70-73
SiO ₂ (%)		21-24	20-23	20-22
ZrO ₂ (%)		-	4-6	4-7
Fe ₂ O ₃ (%)		≤0.5	≤0.4	≤0.4

Crystal Phase	Corundum (%)	28-35	30-38	30-38
	Mullite (%)	30-50	40-60	40-60
	Glass Phase (%)	15-25	10-20	10-20
Allowed Tolerance	Outer Diameter (mm)	+0.3/-0.5		
	Roundness (mm)	≤0.5		
	Length (mm)	+/-3.0		
	Linearity (mm)	≤0.07%x Length		

Application	Glazed Wall/Floor Tile	▲	▲	
	Rustic Tile	▲	▲	▲
	Porcelain Tile		▲	▲
	Tableware		▲	▲
	Ferromagnetic Materials			▲
	Advanced Ceramics			▲
	Microcrystalline Tile		▲	▲

Welcome to contact with us for more details.

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