SINCE 1990
AOKEROLA GROUP

OUR AOKEROLA

WORLD'S AOKEROLA

AOKEROLA GROUP

Head Office & Factory:
Add.: Zibo, Shandong, P. R. China Tel: +86 533 3588889
Fax: +86 533 3588880 E-Mail: aokerola@aokerola.com
Website: www.aokerola.com

SINCE 1990

AOKEROLA GROUP

The world's leading MANUFACTURER and EXPERT of Ceramic Roller & Alumina Grinding Media

www.aokerola.com

COMPANY PROFILE

AOKEROLA GROUP is a leading fine ceramic manufacturer established in 1990. Holding five national enterprises and two overseas subsidiaries, AOKEROLA GROUP specializes in developing advanced technical ceramic R&D, production and global sales. The main products are High quality High Temperature Ceramic Roller, Alumina Grinding ball, Wear—resistant Lining Brick and Special Industrial Ceramics.

Based on complete sets of German production equipment and top class Spanish software with world's leading technology, AOKEROLA manufactures over 1.5 million ceramic rollers and over 10 thousand tons of Alumina Grinding Media and other technical ceramic products, marking a significant market share in the world. Up to now AOKEROLA products have been sold to more than 30 countries and regions including the United States of America, Germany, Japan, Italy, Spain, Turkey, India, Iran, Indonesia, Mexico, Russia, Taiwan China, etc.

Targeting the fine ceramic market, AOKEROLA has been consistent with the changing market and various needs of customers, kept developing effective solutions for partners, by virtue of high quality products, services and scientific management, AOKEROLA has gained significant reputation in the global market!

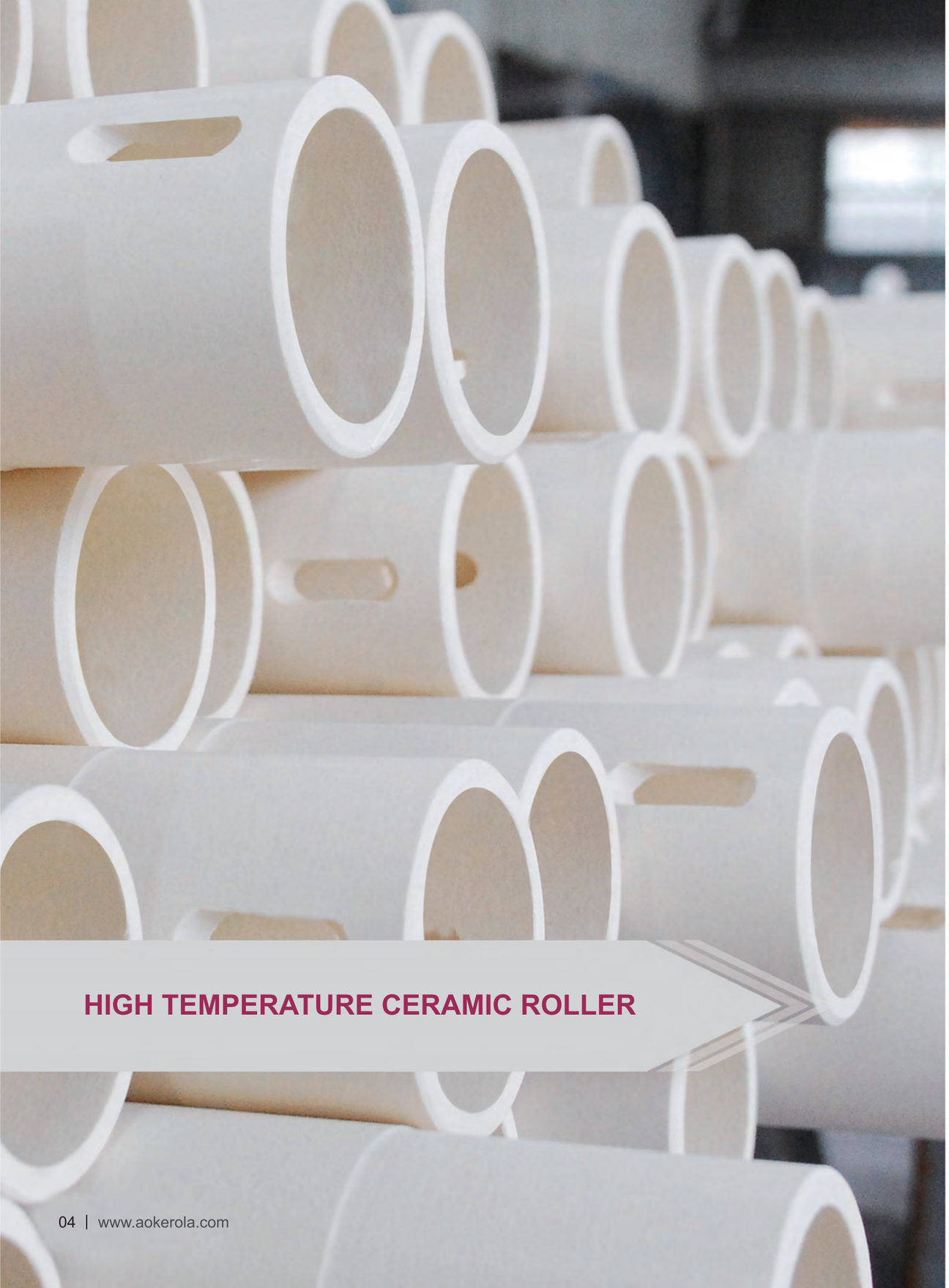
DIRECTORY

OK999 SUPER HIGH TEMPERATURE CERAMIC ROLLER

OK999 Series is the Top-Quality roller developed by AOKEROLA. It delivers excellent properties of outstanding high-temperature resistance and heavy load bearing, with the maximum working temperature up to 1400℃, and known with low water absorption and high anti-bending strength. It is mainly used in the production of vitrified tiles and polished tiles, and applied particularly in the production of heavy-duty.

APPLICATION FIELD

- Thin Tile, Thick Tile
- Water Permeable Brick
- Tableware Roller Kiln
- Super Wide Kiln
- Heavy Loading Roof Tile



HIGH TEMPERATURE CERAMIC ROLLER

OK989 HIGH TEMPERATURE CERAMIC ROLLER

Thanks to advanced production technology and high quality imported raw materials，the OK989 series roller has high density，good strength，strong thermal shock resistance，and excellent overall performance with the maximum working temperature up to 1350℃. It is mainly used in the production of wall tile and floor tile.

APPLICATION FIELD

- Large Size Porcelain Tile
- Tableware
- Polishing Glazed Tile
- Wide Body Kiln

OK979 HIGH TEMPERATURE CERAMIC ROLLER

With the improvement formula，the OK979 series roller can efficiently solve the problem of breakage due to the frequent replacement of rollers. with the maximum service temperature up to 1250℃. It is mainly used in the production of inner and outer wall tiles.

APPLICATION FIELD

- Glazed Inner Wall Tile
- Glazed Floor Tile
- Vitrified& Outer Wall Tile

OK1006 HIGH TEMPERATURE CERAMIC ROLLER

The OK1006 series roller is cost—effective，with the maximum service temperature up to 1100℃，mainly used in preheating zone and slow cooling zone of the tile kiln.

APPLICATION FIELD

- Glazed Inner Wall Tile
- Glazed Floor Tile

OK 909 SIC COMPOSITE ROLLER

- The OK909 roller has a remarkable thermal conductivity given by a certain percentage of silicon carbide in the roller components.

- The OK909 roller does not warp and maintains excellent straightness in the rapid-cooling zone,where it is subject to the high temperature coming from the moving material and the simultaneous introduction of forced cold air.

- By using OK909 roller we keep consistent tile flatness and movement inside the kiln with the optimization of the production output.

OK909WB SIC COMPOSITE ROLLER

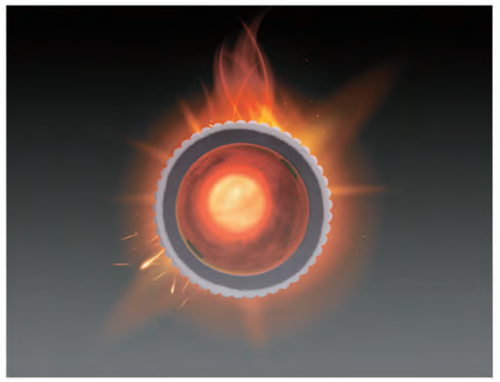
Thanks to the Nano technology and special raw materials in the new formulation, the OK909(OK909WB) Anti-Deformation Roller performs excellently in rapid-cooling environment of roller kiln.

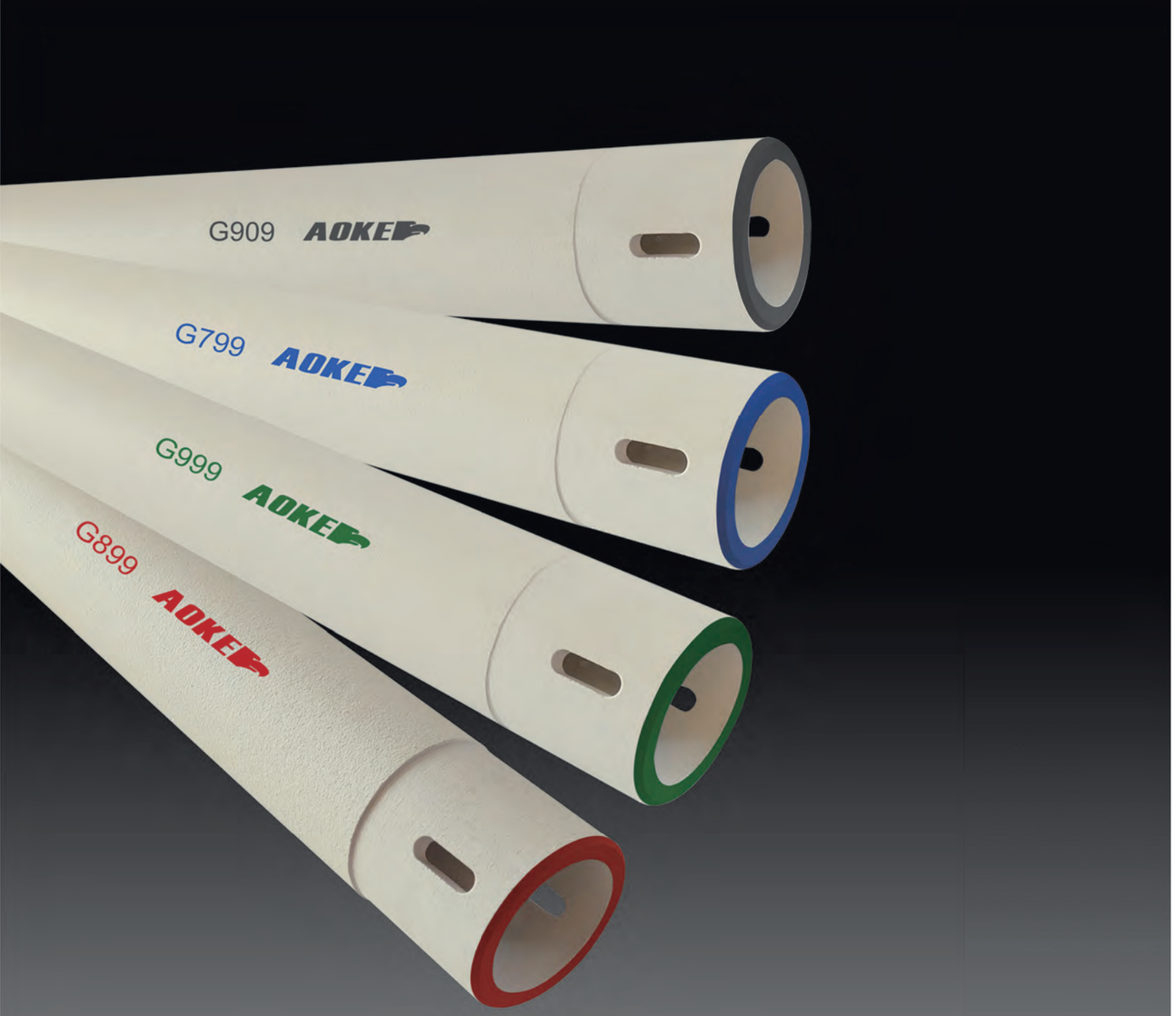
By using the particular three-time pressing & double firing, and perfect combination of alumina and SiC material, the roller boasts both core advantages of mullite ceramic roller and silica carbide roller:

-outstanding wear resistance.

-outstanding creep resistance and corrosion.

OK909WB roller is the best partner of cooling zone for wide kiln to produce big tiles.





GOLDEN SERIES ROLLERS

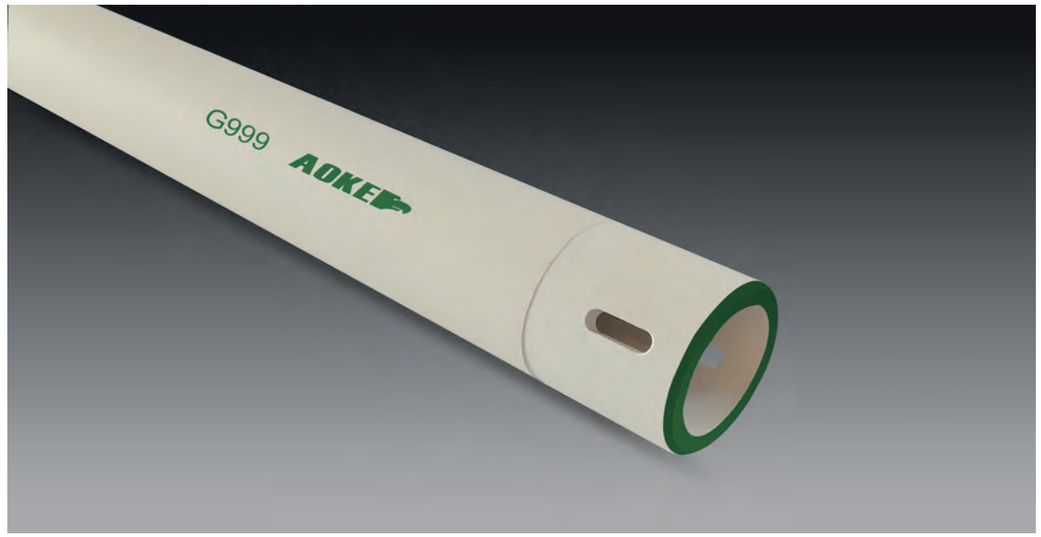
- With 37 years of continuous innovative R&D and practical market verification, AOKEROLA proudly presents the Golden Series Rollers.

- These rollers feature high toughness, low creep, excellent high-temperature load resistance and exceptional rigidity.

- With a service life three times longer than standard alumina rollers, they deliver outstanding cost reduction and efficiency improvement to maximize operational value.

G999 ULTRA-HIGH TEMPERATURE GOLD CERAMIC ROLLER

G999 series is the Top-Quality roller developed by AOKEROLA. It has excellent property of high temperature resistant and heavy load bearing, with the maximum working temperature up to 1400°C , and known with low water absorption, high anti-bending strength and strong thermal shock resistance . It is mainly used in the production of vitrified tile and polished tiles, and applied particularly in the production of heavy duty.

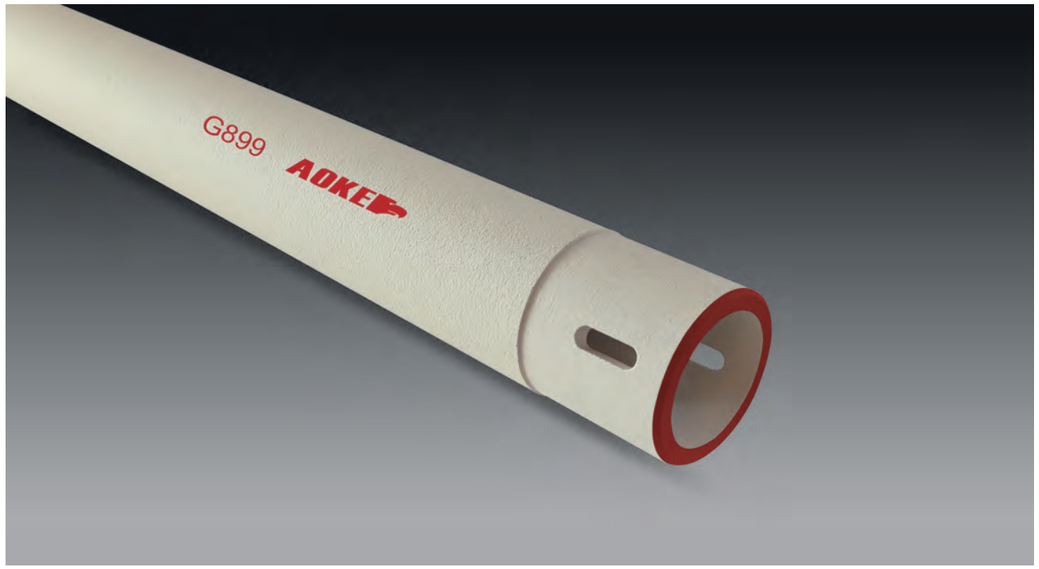


SPECIFICATION OF G999 CERAMIC ROLLER

Property	Items	Unit	Type
			G999
Physical Properties	Max.Service Temperature	°C	1400
	Refractory Degree	°C	1860
	Rate of Water Absorption	%	3.0-4.0
	Anti-bending Strength	Mpa	85-95
	Thermal Shock Resistance	/	Excellent
	Corrosion Resistance	/	Excellent
	Coefficient of thermal expansion (25°C-1000°C)	$*10^{-6}$/°C	5.4
	Density	g/cm^3	2.7-2.8
	Apparent porosity	%	10-12
Chemical Composition	Al_2O_3	%	78-80
	ZrO_2	%	9.0-11.0

G899 HIGH TEMPERATURE GOLD CERAMIC ROLLER

Thanks to advanced production technology and high quality imported raw materials, the G899 series roller has high density, good strength, strong thermal shock resistance, and excellent overall performance with the maximum working temperature up to 1350°C . It is mainly used in the production of wall tile and floor tile.

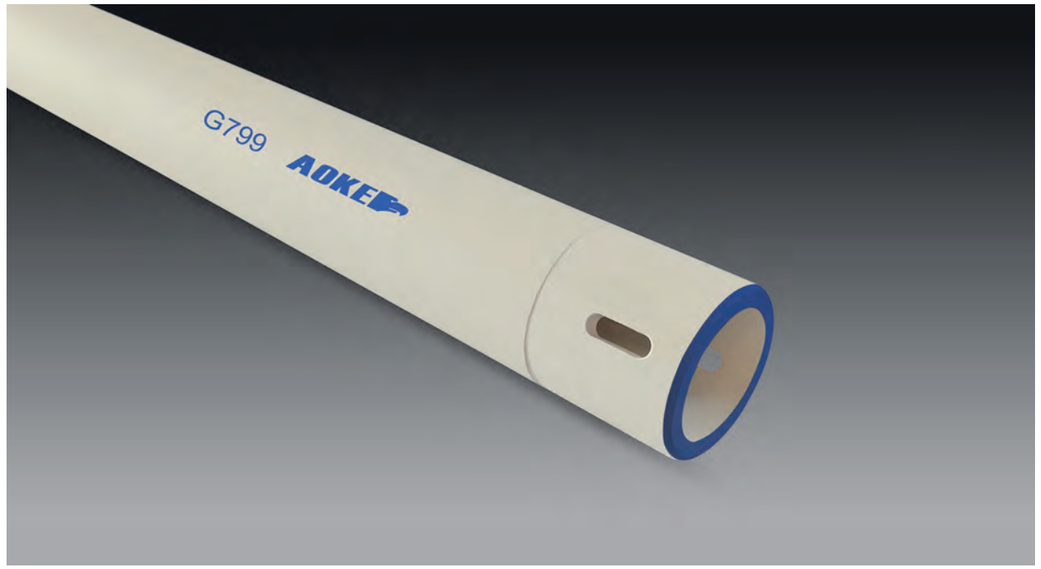


SPECIFICATION OF G899 CERAMIC ROLLER

Characteristic	Items	Unit	Type
			G899
Physical index	Max.Service Temperature	℃	1350
	Refractory Degree	℃	1800
	Rate of Water Absorption	%	5.0-6.0
	Anti-bending Strength	Mpa	70-80
	Thermal Shock Resistance	/	Excellent
	Corrosion Resistance	/	Excellent
	Coefficient of thermal expansion (25°C-1000°C)	$*10^{-6}$/°C	5.4
	Density	g/cm^3	2.5-2.6
	Apparent porosity	%	12-15
Chemical Composition	Al_2O_3	%	75-78
	ZrO_2	%	8.0-10.0

G799 HIGH TEMPERATURE GOLD CERAMIC ROLLER

With the improvement formula, the G799 series roller can efficiently solve the problem of breakage due to the frequent replacement of rollers, with the maximum service temperature up to 1250 °C. with strong thermal shock resistance. It is mainly used in the production of inner and outer wall tiles.

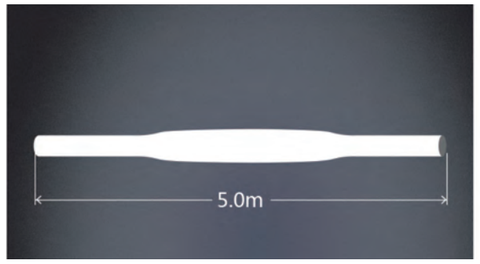


SPECIFICATION OF G799 CERAMIC ROLLER

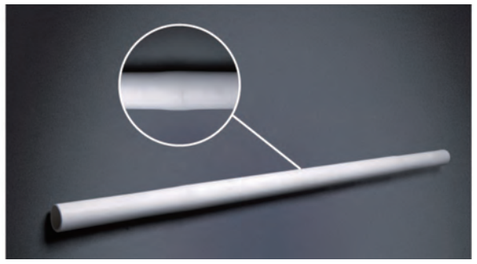
Characteristic	Items	Unit	Type
			G799
Physical index	Max.Service Temperature	℃	1250
	Refractory Degree	℃	1750
	Rate of Water Absorption	%	6.0-7.0
	Anti-bending Strength	Mpa	65-75
	Thermal Shock Resistance	/	Excellent
	Corrosion Resistance	/	Excellent
	Coefficient of thermal expansion (25°C-1000°C)	$*10^{-6}$/°C	5.4
	Density	g/cm^3	2.5-2.6
	Apparent porosity	%	12-15
Chemical Composition	Al_2O_3	%	70-75
	ZrO_2	%	7.0-8.0

OK818 RECTIFYING CERAMIC ROLLER

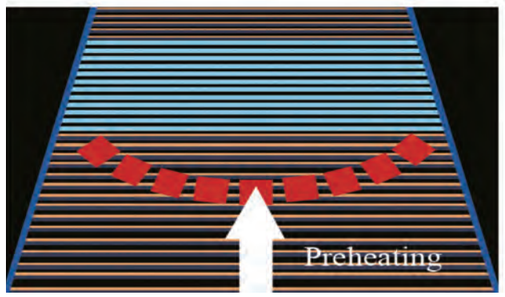
SKETCH OF OK818 ROLLER



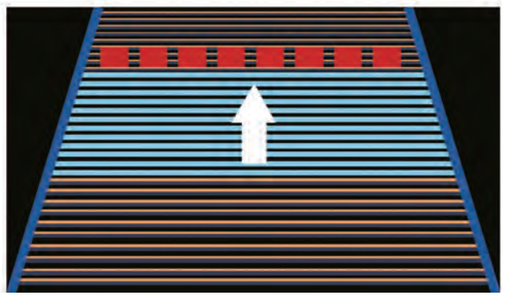
PICTURE OF OK818 ROLLER



COMPARISON—BEFORE & AFTER APPLYING OK818 ROLLER



Before applying



After applying

APPLICATION

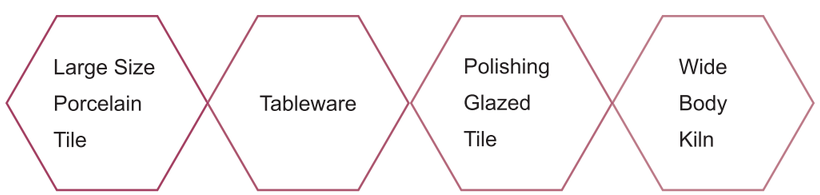
★ OK818 tile alignment rollers eliminate tile shifting inside wide & extra-long roller kilns.

★ They balance tile travel speed to reduce breakage and avoid tile collision with kiln walls, maintaining stable tile flatness during high-speed production.

★ Custom curved profiles can be tailored to match your kiln requirements.

★ To adjust the moving direction of the ceramic tile by increasing the radian of rollers in different positions of roller as per customer's requirement.

APPLICATION FIELD



CERAMIC ROLLER TECHNICAL CHARACTERISTICS

Characteristcic	Items	Unit	Types						
			OK1006	OK979	OK989	OK999	OK909	OK818	OK808
Technical Data	Marking Color	/	○Black	○Blue	○Red	○Green	○Yellow	○Red	○Red
	Max.Service Temperature	℃	1100	1250	1350	1400	1050	1350	1350
	Rate of Water Absorption	%	7-9	7-9	4-6	3-5	8-10	4-6	4-6
	Flexural Strength	MPa	50~60	60~70	65~75	70~80	55~65	65~75	65~75
	Thermal Shock Resistance	/	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
	Refractoriness	℃	1700	1750	1800	1860	1500	1800	1800
Composition	AL_2O_3 Content	%	55~60	65~70	76~78	78~80	20~25	76~78	76~78
	ZrO_2 Content	%	-	4~5	5~8	5~8	-	5~8	5~8
	SiO_2 Content	%	-	25~30	16~18	15~17	70~75	16~18	16~18
	SIC Content	%	-	-	-	-		-	-
Application	Inner Wall tile	/	√	√	√	√	√	√	√
	Glazed Floor Tile	/	√	√	√	√	√	√	√
	Vitrified & Exterior Wall Tile	/		√	√	√	√	√	√
	SquareTile	/			√	√	√	√	√
	Polishing Tile	/			√	√	√	√	√
	Household Tile	/			√	√	√	√	√
	Sanitary Ware	/				√	√		
Technical Tolerance	Total Indicated Runout (TIR)	mm	≤0.05%						
	Diameter Variation	mm	0.1						
	Length variation	mm	±2						
	Roundness	mm	≤0.3						

STANDARD SIZES

Diameter(mm)	Length(mm)	Diameter(mm)	Length(mm)
65-80	3000-5300	40	2000-3500
60	2700-5000	36	2000-3300
55	2700-5000	35	2000-3200
52	2400-5000	33.7	1800-3100
50	2400-4600	32	1800-3100
45	2200-3800	20-31	1600-3100
42	2200-3800	12-19	1200-2800

Remark：

1. Other sizes are available upon requests.
2. Final interpretation of above technical data is owned by AOKEROLA GROUP.

ALUMINA GRINDING BALL&CYLINDER

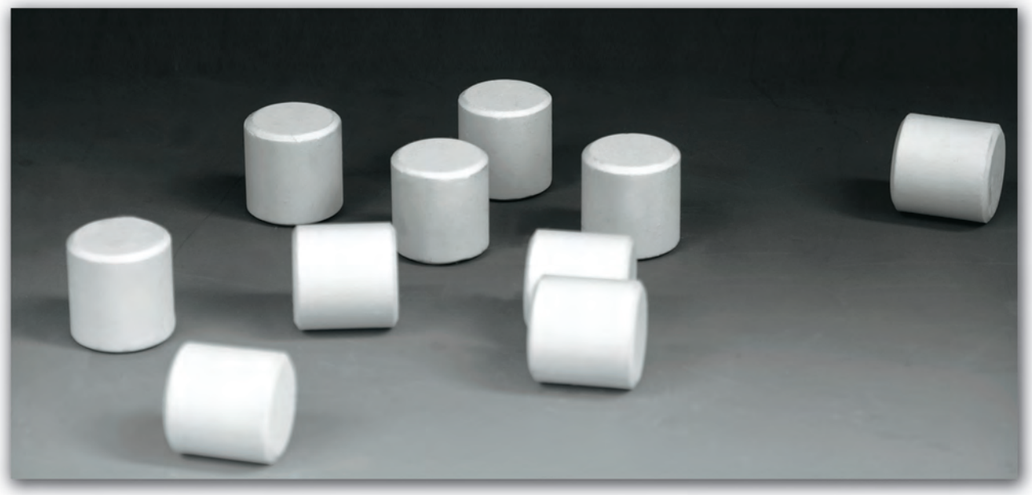
ALUMINA GRINDING MEDIA

APPLICATION

Featuring high hardness, high density and superior abrasion resistance, AOKEROLA alumina grinding balls & cylinders suit wet & dry fine grinding across multiple industries in ceramic industry, cement industry, paint industry, color industry, chemical industry, pharmaceutical industry, coating industry and mining industry, etc.

TECHNICAL SPECIFICATION

TYPE		OK75	OK80	OK93	OK95
AL_2O_3 Content	(%)	75-78	≥80	91-93	≥95
Bulk Density	(g/cm^3)	3.15-3.20	≥3.30	3.63-3.70	3.70-3.75
Hardness	(Mohs)	8	9	9	9
Anti-Comp.Strength	(Mpa)	1700	≥1800	≥2000	≥2500
Water Absorption rate	(%)	≤0.02	≤0.02	≤0.01	≤0.01
Abrasion Loss	(‰)	0.10-0.15	≤0.12	0.07-0.12	≤0.05



ALUMINA LINING BRICK

ALUMINA LINING BRICKS

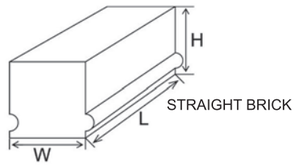
APPLICATION

The alumina lining brick works as the lining in the ball mill，widely used in ceramic industry，cement industry，chemical industry，medicine industry and coating industry．The brick improves the grinding efficiency and reduces grinding cost．It is the best choice for the ball mill.

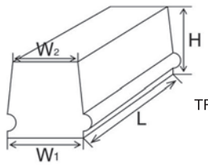
TECHNICAL SPECIFICATION

TYPE		OK75	OK80	OK93	OK95
AL_2O_3 Content	(%)	75-78	≥80	91-93	≥95
Bulk Density	(g/cm^3)	3.15-3.20	≥3.30	3.63-3.70	3.70-3.75
Hardness	(Mohs)	8	9	9	9
Anti-Comp.Strength	(Mpa)	1700	≥1800	≥2000	≥2500
Water Absorption rate	(%)	≤0.02	≤0.02	≤0.01	≤0.01
Abrasion Loss	(‰)	0.10-0.15	≤0.12	0.07-0.12	≈0.05

SIZE



STRAIGHT BRICK



TRAPEZOIDAL BRICK

TYPE	RECTANGLE BRICK	TRAPEZOID BRICK	HALF RECTANGLE BRICK	HALF TRAPEZOID BRICK	FLAKE BRICK
LENGTH (mm) L	150	150	75	75	150
WIDTH (mm) $W,W_1/W_2$	50	50/45	50	50/45	25
HEIGHT (mm) H	100/80/70/60/50/40				