

KH666

Technical Data Sheet

KH666, the optimal solution for the rapid cooling zone in kiln. Silicon carbide with mullite composite structure possess high thermal conductivity which is 60% greater than normal rollers. With this great property, the heat on rollers and tiles in rapid cooling zone can be transferred faster and uniformly, so that tiles and rollers can keep straight under sudden temperature change in rapid cooling zone. KH666 has high bending strength and thermal resistance to heat shock, enable tiles to transport in order because of unbending rollers. The suitable working temperature: 1100°C.



Yellow -coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|---|
| Major Chemical Analysis | : Al ₂ O ₃ 45~47, SiC. 38~42 % |
| Mineral Phase | : SiC. Mu. Co. |
| Density | : 2.51~2.56 g/cm ³ |
| Apparent Porosity | : 19~22 % |
| Bending strength | : 480~580 Kg/cm ² |
| Thermal Expansion | : 4.29~4.39 x 10 ⁻⁶ /°C |
| Heat Transfer Coefficient | : 4.81~4.88 W/mK |
| Thermal Shock Resistance | : Excellence |
| Max. working Temperature | : 1100°C |
| Refractoriness Temperature | : 1350°C |
| Advised uses in tile manufacturer | : Suitable for all kinds of tiles, special for Rapid Cooling Zone |

The data above are verified from testing samples in the laboratory, do not constitute guarantee

KH757

Technical Data Sheet

High Temperature Ceramic Roller of KH757 is used for single firing, especially for the kilns in producing glazed floor and wall tiles. This series roller has high density, high modulus of elasticity, heavy load in high temperature.



Red-coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|---|
| Major Chemical Analysis | : Al_2O_3 73~75% |
| Mineral Phase | : Mu. Bd. Co. |
| Density | : 2.60~2.65 g/cm ³ |
| Apparent Porosity | : 19~22 % |
| Bending strength | : 380~430 Kgf/cm ² |
| Thermal Expansion | : $4.35\sim 4.45 \times 10^{-6}/^\circ\text{C}$ |
| Heat Transfer Coefficient | : 3.00~3.10 W/mK |
| Thermal Shock Resistance | : very good |
| Max. working Temperature | : 1190 °C |
| Refractoriness Temperature | : 1530 °C |
| Advised uses in tile manufacturer | : Dryer kiln, Floor & Wall tiles |

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KH757A

Technical Data Sheet

High Temperature Ceramic Roller of KH757A is used for single firing, especially for the kilns in producing porcelain and rustic tiles. This series roller has high density, high modulus of elasticity, heavy load in high temperature.



Gray -coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|---|
| Major Chemical Analysis | : Al_2O_3 74~76% |
| Mineral Phase | : Mu. Bd. Co. |
| Density | : 2.61~2.66 g/cm ³ |
| Apparent Porosity | : 18~21 % |
| Bending strength | : 400~450 Kgf/cm ² |
| Thermal Expansion | : 4.39~4.49 x 10 ⁻⁶ /°C |
| Heat Transfer Coefficient | : 3.01~3.11 W/mK |
| Thermal Shock Resistance | : very good |
| Max. working Temperature | : 1220 °C |
| Refractoriness Temperature | : 1550 °C |
| Advised uses in tile manufacturer | : Dryer kiln, Floor & Wall tiles, Porcelain tiles |

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High Temperature Ceramic Roller of KH767 is used for single firing, especially for the kilns in producing polished porcelain tiles. This series roller has high density, high modulus of elasticity, heavy load in high temperature.



Green -coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|---|
| Major Chemical Analysis | : Al_2O_3 75~77% |
| Mineral Phase | : Mu. Bd. Co. |
| Density | : 2.62~2.66 g/cm ³ |
| Apparent Porosity | : 17~20 % |
| Bending strength | : 410~460 Kg/cm ² |
| Thermal Expansion | : $4.45\sim 4.55 \times 10^{-6}/^\circ\text{C}$ |
| Heat Transfer Coefficient | : 3.02~3.12 W/mK |
| Thermal Shock Resistance | : good |
| Max. working Temperature | : 1250 °C |
| Refractoriness Temperature | : 1580 °C |
| Advised uses in tile manufacturer | : Polished Granite |

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KH777

Technical Data Sheet

KH777 with low porosity and excellent bending strength at high temperature, is able to work under heavy loads at high firing zone. Keep tiles transported in straight lines and good planarity and dedicate the tile value. KH777 recommended used in firing zone and preheating zone.



Black -coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|---|
| Major Chemical Analysis | : Al_2O_3 77~79% |
| Mineral Phase | : Mu. Bd. Co. |
| Density | : 2.66~2.73 g/cm ³ |
| Apparent Porosity | : 16~19 % |
| Bending strength | : 460~520 Kgf/cm ² |
| Thermal Expansion | : $4.67\sim 4.87 \times 10^{-6}/^\circ\text{C}$ |
| Heat Transfer Coefficient | : 3.05~3.15 W/mK |
| Thermal Shock Resistance | : good |
| Max. working Temperature | : 1280 °C |
| Refractoriness Temperature | : 1600 °C |
| Advised uses in tile manufacturer | : Fine ceramics, Tableware, Sanitary Ceramics |

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KH868

Technical Data Sheet

KH868, Sulfonated resistant roller. The newly designed roller are made from acid and alkaline –resistant materials, possess the ability to resist chemical aggression, such as fluorine, sulfonate and fuel vapor in kiln. With the property, KH868 is right roller to work longer than normal rollers in extreme chemical aggressive environment and reduce the chance of sulfonated crack during long period fire in improper atmosphere. The characteristic micro-structure porosity extend the time that glaze impurity adhere to the roller surface. Working area in kiln: preheating zone and the area of kiln that glaze impurity adhere to the roller surface in short term.



Blue -coloured ends marked with the number

Technical specifications:

| | |
|-----------------------------------|--|
| Major Chemical Analysis | : Al_2O_3 74~76% |
| Mineral Phase | : Mu. Bd. Co. |
| Density | : 2.72~2.78 g/cm ³ |
| Apparent Porosity | : 14~17 % |
| Bending strength | : 440~500 Kgf/cm ² |
| Thermal Expansion | : $4.67\sim 4.87 \times 10^{-6}/^\circ\text{C}$ |
| Heat Transfer Coefficient | : 3.1~3.21 W/mK |
| Thermal Shock Resistance | : good |
| Max. working Temperature | : 1260 °C |
| Refractoriness Temperature | : 1580 °C |
| Advised uses in tile manufacturer | : Fine ceramics, Tableware, Sanitary Ceramics. Special for Sulfonated of preheating zone. |

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