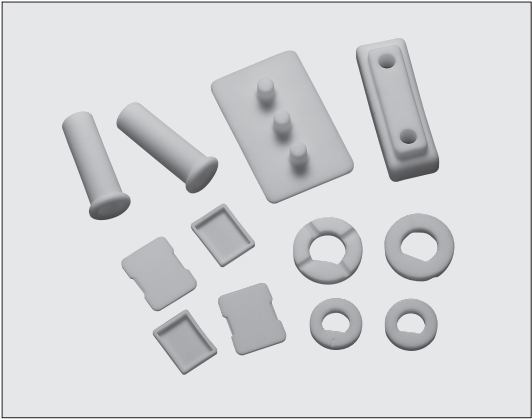


KNC 特制陶瓷
New Ceramics



■ 用途 Applications

- 传感器，电子元件，取暖器的保护管，绝缘管
- 产业用机器零部件
- 土木关联等的构造零部件制造
- Protective tube and Insulation tube of Sensor,
- Electric components and heater.
- Industrial mechanical parts
- Structure parts of civil engineering

■ 特点 Features

- KNC是根据客户要求的形状相对应特别订制的陶瓷产品
- 通过独特的成形过程，能形成复杂立体形状，提供与孔•等级差别•凹凸•沟•螺钉山等组合的产品。
- 材质氧化铝95%，块滑石的2种类选择。
- 很好地运用陶瓷有的耐热性•耐药品性•耐磨耗性•绝缘性等特征，能够在各种用途，环境下使用。
- KNC is a custom ceramics product that corresponds according to the demanded shape.
- Complex 3D shape forming available by KOA original forming process and combination of hole, step, concave and convex, chase, thread possible.
- It can be chosen two kinds of material according to the alumina 95% and the steatite.
- Features heat resistance, chemical resistance, anti-wear, insulation characteristic of ceramics, which enables to be used for various purpose under various environment.

■ 品名构成 Type Designation

实例	Example
KNC	3333
品种 Product Code	制造密码 KOA Ref. No.

■ 材料特性 Characteristics of Material

項目 Item	特性 Characteristics	
材料名 Material	氧化铝 Al ₂ O ₃	块滑石 MgO·SiO ₂
氧化铝含量 (%) Alumina content (%)	95	—
颜色 Color	白 white	
外观密度 (g/cm³) Apparent density	3.6	2.8
吸水率 (%) Water absorption	0	0
弯曲强度 (MPa) Transverse strength	≥330	139
维氏硬度在 at 300gf Vickers hardness	1500	—
线膨胀系数 (×10 ⁻⁶ /K) Line expansion coefficient	7.4 (在 20℃~800℃)	8.0 (在 20℃~100℃)
介电常数 (在 1MHz) Dielectric constant (at 1MHz)	9	6.2
誘電正接 (Ω·cm) (在t 25℃) Dielectric tangent	8×10 ⁻⁴	13×10 ⁻⁴
体积固有阻值 Volume resistivity value	10 ¹⁴	10 ¹³
电介质强度 (kV/mm) Dielectric strength	≥18	≥20

由于上述值是一个产品试验测量的参考值，所以有可能因产品的形状的不同而改变。
Above value is the reference value by test piece measurement and changes depending on product style.

本样本手册中记载的产品规格如有变更，恕不一一奉告。订购以及使用之前，请仔细确认规格表的内容。
用于车载设备、医疗设备、航空设备以及其它涉及人身安全、或可能引起重大损失的设备上时，请务必事先与我公司联系。这些产品在这类用途中出现故障或失灵可能导致人身事故或严重损坏。
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.
Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment.
Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

■ 机械加工 Machining process

研磨加工 Polishing processing

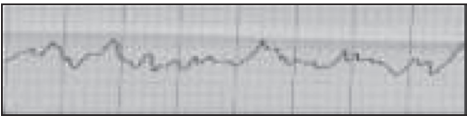
通过研磨加工能够根据使用目的不同，选择产品表面特性。
The surface characteristic depending on use purpose is obtainable by polishing processing.

完成品 Finish turning	表面粗糙度 Surface roughness
不研磨 No polishing	Ra 1.0 – 2.0 μ m
通常研磨 Normal abrasive	Ra 0.4 – 1.0 μ m
光泽研磨 Gloss grinding	Ra 0.2 μ m max.

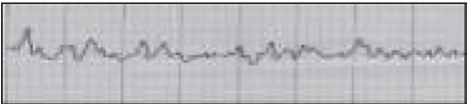
■ 表面粗糙度例 Surface roughness

我公司氧化铝95%材料
KOA's Al₂O₃ 95% material

不研磨 No polishing



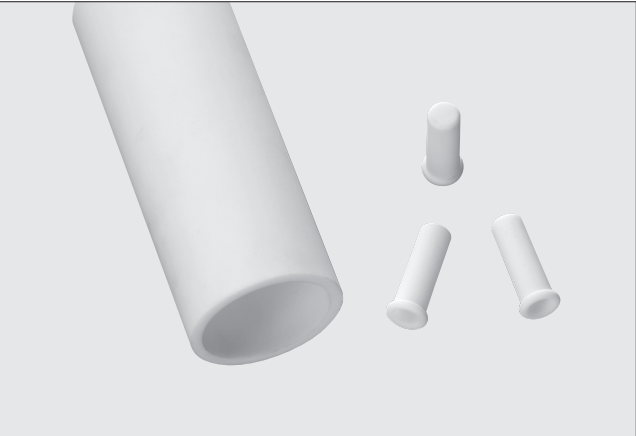
通常研磨 Normal abrasive



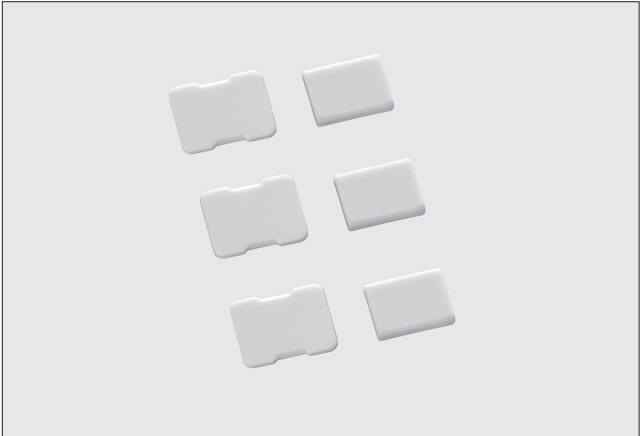
光泽研磨 Gloss grinding



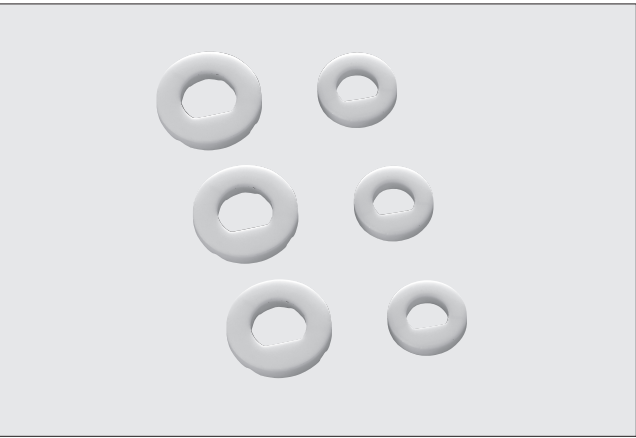
■ 产品例 Example of Products



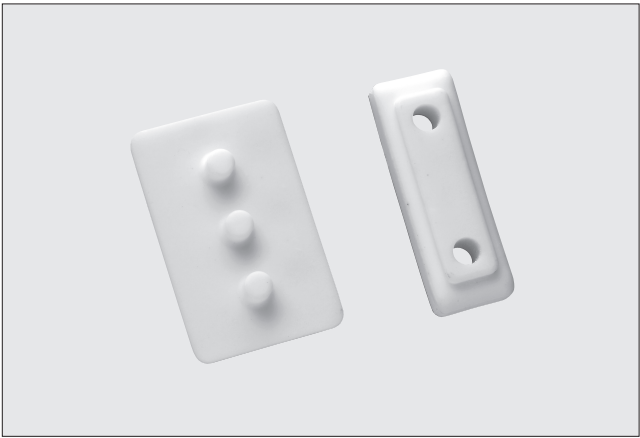
绝缘管 Insulation tube
保护管 Protective tube



导热品 Heat transfer parts



耐磨损产品 Anti-wear parts



其它产品 Other product