

## Ceramic Alumina TG-A Technical Data Sheet

### 陶瓷微晶刚玉 TG-A 产品标准

#### 1. USE 用途

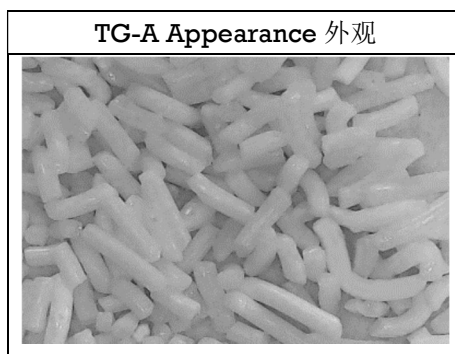
Ceramic alumina TG-A is a kind of abrasive for high efficiency application. It is design for manufacturing resin/ceramic bond wheel.

陶瓷微晶刚玉 TG-A, 是适应于高效率及难磨材料的磨削。可用于陶瓷/树脂砂轮, 切割/打磨片及涂覆产品。

#### 2. DESCRIPTION 描述

TG-A is a rod shape product. It is sintered by alumina powder, and has high density and high hardness.

陶瓷微晶刚玉 TG-A 是条状磨料, 由特种氧化铝制成具有高的硬度和密度。



#### 3. TYPICAL PROPERTTY 产品特性

##### ■ Physical 物理特性

Micro-Structure 微观结构	Polycrystalline alumina, 50-100nm of crystal size. 晶粒尺寸 50-100 纳米, 片层状堆积
Shape/Color 形貌/颜色	Rod/White 条状/白色
True density 真密度	$\geq 3.85 \text{ g/cm}^3$
Temp. of stability 耐温	$< 1100^\circ\text{C}$

##### ■ Chemical 化学成分

Al <sub>2</sub> O <sub>3</sub>	La <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>	MgO	Others
94.5-97%	1.5-2.5%	0.5-1.5%	0.5-1.5%	0-0.5%

##### ■ Grain Size 颗粒尺寸

Grit Size 粒度	Diameter(mm)直径	Ratio of length and diameter 长径比
20	0.90~1.10	3:1
24	0.70~0.90	3:1
36	0.55~0.62	4:1

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Grit Size 粒度	Diameter(mm)直径	Ratio of length and diameter 长径比
40	0.48~0.55	4:1
46	0.35~0.42	4:1
60	0.25~0.35	4:1
80	0.21~0.25	5:1
100	0.18~0.21	6:1
120	0.14~0.18	6:1

- Ratio of length and diameter list in above table is nominal value.

Distribution of the ratio as below.

长短颗粒按照上表中的中心值的重量比例分布如下:

Grains Type 颗粒类型	Weight rate, % 重量比例
Nominal 中值附近	$\geq 80$
Longer than nominal 偏长颗粒	$\leq 9$
Shorter than nominal: 偏短颗粒	$\leq 5$
Chips:碎屑	$\leq 5$

#### 4. Standard Package 包装规范

Paper bag, 25Kg per bag.

纸袋包装，每包 25Kg

#### 5. Traceability 追溯性

Can provide one year production information from order date.

可提供自订单日起 1 年内的产品生产信息追溯。

#### 6. Others 其他

Can have special coating (Fe<sub>2</sub>O<sub>3</sub> or ZrO<sub>2</sub>), according customer requirement for better interface performance.

可以根据客户的要求提供氧化铁红或者氧化锆涂层。

