

Ceramic Alumina TG-T Technical Data Sheet

陶瓷微晶刚玉 TG-T 产品标准

1. USE 用途

Ceramic alumina TG-T 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-T, 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-T is a prism shape product. It is sintered by alumina powder, and has high density and high hardness.

陶瓷微晶刚玉 TG-T 是三角条状磨料, 较 TG-A 产品具有更好的锋利度。



3. TYPICAL PROPERTY 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 | Prism/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 ₂ O ₃ | La ₂ O ₃ | Y ₂ O ₃ | 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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- 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 | $\cong 80$ |
| Longer than nominal 偏长颗粒 | $\cong 9\%$ |
| Shorter than nominal: 偏短颗粒 | $\cong 5$ |
| Chips:碎屑 | $\cong 5$ |

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 (Fe₂O₃ or ZrO₂), 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。

