

All technical data presented represent typical results, unless stated otherwise as min/max values. No guarantee is made that material will meet exactly the values shown.

Aluminum Oxide, 99.99% ultrafine, TM-DAR

| Properties | | Method | |
|---|----------------|--------------------------------------|---|
| Crystal Form | | alpha-Al ₂ O ₃ | Powder XRD |
| Surface Area (m ² /g) | | 14.5 ? 1 | BET |
| Average Particle Size (?m) | | 0.2 ? 0.05 | Sedigraph |
| Bulk Density | Loose (g/cc) | 0.9 ? 0.1 | JIS |
| | Tapped (g/cc) | 1.0 ? 0.1 | JIS |
| | Pressed (g/cc) | 2.25 ? 0.1 | Molding pressure: 1 ton/cm ² |
| Fired Density (g/cc) | | > 3.95 | Fired for 1 h @ 1350°C in air |
| Impurities | Na (ppm) | < 15 | Flame Spectroscopy |
| | K (ppm) | < 10 | Flame Spectroscopy |
| | Fe (ppm) | < 20 | ICP emission spectrophotometry |
| | Ca (ppm) | < 5 | ICP emission spectrophotometry |
| | Mg (ppm) | < 5 | ICP emission spectrophotometry |
| | Si (ppm) | < 25 | ICP emission spectrophotometry |
| Purity (Al ₂ O ₃ %) | | > 99.99 | Excluding ignition loss |

TM-DAR is spherical powder.

Application: [Advanced ceramics](#), [Specialty materials](#)

Product type: [Consumables](#), [Chemicals](#)

Production scale: [Lab](#), [Pilot](#), [Commercial](#)

Search tags: [Advanced Ceramics](#), [Al₂O₃](#), [Aluminum oxide](#)