



## Advanced Engineering Materials

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# Material Certification Sheet

|               |   |
|---------------|---|
| Product Name: | Gadolinium Oxide (Gd <sub>2</sub> O <sub>3</sub> ) Powder |
| Purity:       | 99.999%   |
| AEM Part No.: | AEMRP-Gd <sub>2</sub> O <sub>3</sub>                      |
| Lot Number:   | AEM2024050801   |

Analysis Type: ppm by wt.

|                                       |            |                                |     |
|---------------------------------------|------------|--------------------------------|-----|
| Gd <sub>2</sub> O <sub>3</sub> / TREO | > 99.999 % | Fe <sub>2</sub> O <sub>3</sub> | 2.5 |
| La <sub>2</sub> O <sub>3</sub>        | 0.1        | SiO <sub>2</sub>               | 9.5 |
| CeO <sub>2</sub>                      | 0.1        | CaO                            | 5.5 |
| Pr <sub>6</sub> O <sub>11</sub>       | 0.1        | MgO                            | 0.5 |
| Nd <sub>2</sub> O <sub>3</sub>        | 0.21       | /                              | /   |
| Sm <sub>2</sub> O <sub>3</sub>        | 0.25       | /                              | /   |
| Eu <sub>2</sub> O <sub>3</sub>        | 1.2        | /                              | /   |
| Gd <sub>2</sub> O <sub>3</sub>        | 99.999%    | /                              | /   |
| Tb <sub>4</sub> O <sub>7</sub>        | 1.5        | /                              | /   |
| Dy <sub>2</sub> O <sub>3</sub>        | 1.3        | /                              | /   |
| Ho <sub>2</sub> O <sub>3</sub>        | 0.3        | /                              | /   |
| Er <sub>2</sub> O <sub>3</sub>        | 0.1        | /                              | /   |
| Tm <sub>2</sub> O <sub>3</sub>        | 0.1        | /                              | /   |
| Yb <sub>2</sub> O <sub>3</sub>        | 0.1        | /                              | /   |
| Lu <sub>2</sub> O <sub>3</sub>        | 0.2        | /                              | /   |
| Y <sub>2</sub> O <sub>3</sub>         | 0.4        | /                              | /   |

By: \_\_\_\_\_