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Material Certification Sheet

| | |
|---------------|--|
| Product Name: | Neodymium Oxide (Nd ₂ O ₃) Powder |
| Purity: | TREO >99.5%, Nd ₂ O ₃ /TREO >99.9% |
| AEM Part No.: | AEMREO-Nd ₂ O ₃ |
| Lot Number: | AEM2013052801 |
| Date: | 2013/5/28 |

Analysis Type: ICP-MS

| REO Impurities (<) | | Non-REO Impurities (<) | |
|--------------------------------------|--------|--------------------------------|-------|
| La ₂ O ₃ | 92.0 | L.O.I | 0.3% |
| CeO ₂ | 85.0 | Fe ₂ O ₃ | 42.0 |
| Pr ₆ O ₁₁ | 1600.0 | SiO ₂ | 85.0 |
| Nd ₂ O ₃ | Matrix | CaO | 100.0 |
| Sm ₂ O ₃ | 59.0 | Al ₂ O ₃ | 100.0 |
| Eu ₂ O ₃ | 82.0 | Na ₂ O | 470.0 |
| Gd ₂ O ₃ | 76.0 | SO ₄ ²⁻ | 240.0 |
| Tb ₄ O ₇ | 90.0 | Cl ⁻ | 520.0 |
| Dy ₂ O ₃ | 43.0 | | |
| Ho ₂ O ₃ | 70.0 | | |
| Er ₂ O ₃ | 96.0 | | |
| Tm ₂ O ₃ | 65.0 | | |
| Yb ₂ O ₃ | 28.0 | | |
| Lu ₂ O ₃ | 63.0 | | |
| Y ₂ O ₃ | 48.0 | | |
| TREO | >99.5% | | |
| Nd ₂ O ₃ /TREO | >99.9% | | |

REO: rare earth oxide
TREO: total rare earth oxide

By: _____