

## Certificate of Analysis

Item Code: OX65-4N  
Product Name: Terbium Oxide (Tb<sub>4</sub>O<sub>7</sub>) Powder  
Purity: 99.99% (REO)  
Lot Number: OX65-23-SAM  
Date: 08/23/2023

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TREO (%)	>99
Tb <sub>4</sub> O <sub>7</sub> /TREO (%)	>99.99
<u>Rare Earth Impurities:</u>	
La <sub>2</sub> O <sub>3</sub> (%)	< 0.00006
CeO <sub>2</sub> (%)	< 0.0002
Pr <sub>6</sub> O <sub>11</sub> (%)	< 0.00004
Nd <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Sm <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Eu <sub>2</sub> O <sub>3</sub> (%)	< 0.00005
Gd <sub>2</sub> O <sub>3</sub> (%)	< 0.0007
Dy <sub>2</sub> O <sub>3</sub> (%)	< 0.0001
Ho <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Er <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Tm <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Yb <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Lu <sub>2</sub> O <sub>3</sub> (%)	< 0.00001
Y <sub>2</sub> O <sub>3</sub> (%)	< 0.0001
<u>Non-Rare Earth Impurities:</u>	
Fe <sub>2</sub> O <sub>3</sub> (%)	0.0003
SiO <sub>2</sub> (%)	0.0015
CaO (%)	0.0008
Cl <sup>-</sup> (%)	<0.0085
L.O.I. (%)	<1

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By Andrew