



# CERTIFICATE OF ANALYSIS

*The Power to Question*

Catalog Number: sc-229360  
Lot Number: SAMPLE  
Product Name: Terbium(III) oxide  
CAS Number: 12036-41-8  
Molecular Formula:  $Tb_2O_3$   
Molecular Weight: 365.85

Test	Specification	Result
Appearance (Color)	White to off-white	Off-white
Appearance (Form)	Solid, powder or crystals	Powder
Identification (ICP)	Confirms Terbium component	Confirms
Trace Rare Earth Analysis	$\leq 200.0$ ppm	78.2 ppm
Aluminum		3.7 ppm
Barium		0.3 ppm
Cerium		9.4 ppm
Cesium		0.5 ppm
Copper		1.0 ppm
Dysprosium		14.3 ppm
Gallium		0.1 ppm
Gadolinium		4.0 ppm
Holmium		0.1 ppm
Lanthanum		25.6 ppm
Lithium		0.1 ppm
Magnesium		0.8 ppm
Sodium		1.2 ppm
Strontium		0.2 ppm
Terbium	85.6 - 88.2%	86.3%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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Yttrium	3.2 ppm
Zinc	1.0 ppm

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