



## Advanced Engineering Materials

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### Material Certification Sheet

Product Name:	Erbium Oxide (Er <sub>2</sub> O <sub>3</sub> ) Powder
Purity:	TREO >99.9%, Er <sub>2</sub> O <sub>3</sub> /TREM >99.99%
Particle Size:	aro 2um
AEM Part No.:	AEMRE-Er <sub>2</sub> O <sub>3</sub>
Lot Number:	AEM2018081801
Date:	2018/8/18

Analysis Type: ICP, ppm

RE Impurities (<)		Non-RE Impurities (<)	
La <sub>2</sub> O <sub>3</sub>	<1	Fe <sub>2</sub> O <sub>3</sub>	<5
Ce <sub>2</sub> O <sub>3</sub>	<1	SiO <sub>2</sub>	<50
Pr <sub>6</sub> O <sub>11</sub>	<1	CaO	<50
Nd <sub>2</sub> O <sub>3</sub>	<1	MgO	<10
Sm <sub>2</sub> O <sub>3</sub>	<1	Al <sub>2</sub> O <sub>3</sub>	<50
Eu <sub>2</sub> O <sub>3</sub>	<1	NaO	<10
Gd <sub>2</sub> O <sub>3</sub>	<1	PbO	<10
Tb <sub>2</sub> O <sub>3</sub>	<1	NiO	<5
Dy <sub>2</sub> O <sub>3</sub>	<1	P	<5
Ho <sub>2</sub> O <sub>3</sub>	<1	S	<50
Er <sub>2</sub> O <sub>3</sub>	Matrix	Cl	<100
Tm <sub>2</sub> O <sub>3</sub>	26	LOI	<1%
Yb <sub>2</sub> O <sub>3</sub>	18		
Lu <sub>2</sub> O <sub>3</sub>	11		
Y <sub>2</sub> O <sub>3</sub>	14		
TREO	>99.9%		
Er <sub>2</sub> O <sub>3</sub> /TREO	>99.99%		

REO: rare earth oxide  
TREO: total rare earth oxide

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