



# Advanced Engineering Materials

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## Material Certification Sheet

Product Name:	Holmium Oxide (Ho <sub>2</sub> O <sub>3</sub> ) Powder
Purity:	99.5% TREO
Size:	10-20um
AEM Part No.:	AEMRE-Ho <sub>2</sub> O <sub>3</sub>
Lot Number:	AEM-20210901

Analysis Type: ICP, % by Wt.

RE Impurities (<)		Non-RE Impurities (<)	
La <sub>2</sub> O <sub>3</sub>	0.05	Fe <sub>2</sub> O <sub>3</sub>	0.01
Ce <sub>2</sub> O <sub>3</sub>	0.05	SiO <sub>2</sub>	0.05
Pr <sub>6</sub> O <sub>11</sub>	0.05	CaO	0.05
Nd <sub>2</sub> O <sub>3</sub>	0.05	MgO	0.02
Sm <sub>2</sub> O <sub>3</sub>	0.05	Al <sub>2</sub> O <sub>3</sub>	0.05
Eu <sub>2</sub> O <sub>3</sub>	0.05	Na <sub>2</sub> O	0.04
Gd <sub>2</sub> O <sub>3</sub>	0.05	PbO	0.02
Tb <sub>2</sub> O <sub>3</sub>	0.05	NiO	0.02
Dy <sub>2</sub> O <sub>3</sub>	0.20	P	0.02
Ho <sub>2</sub> O <sub>3</sub>	99.5%	S	0.04
Er <sub>2</sub> O <sub>3</sub>	0.20	Cl	0.03
Tm <sub>2</sub> O <sub>3</sub>	0.05	REO	99.0%
Yb <sub>2</sub> O <sub>3</sub>	0.05	L.O.I	<1%
Lu <sub>2</sub> O <sub>3</sub>	0.05		
Y <sub>2</sub> O <sub>3</sub>	0.05		

REO: rare earth oxide  
TREO: total rare earth oxide

By: Mike Li