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## Material Certification Sheet

Product Name:	Cerium Oxide Powder (CeO <sub>2</sub> )
Purity:	99.99% TREO
Size:	<60um
AEM Part No.:	AEMRE-CeO <sub>2</sub>
Lot Number:	AEM-2023052301

Analysis Type: ICP, % by Wt.

RE Impurities (<)		Non-RE Impurities (<)	
La <sub>2</sub> O <sub>3</sub>	0.004	Fe <sub>2</sub> O <sub>3</sub>	0.005
CeO <sub>2</sub>		SiO <sub>2</sub>	0.005
Pr <sub>6</sub> O <sub>11</sub>	0.002	CaO	0.005
Nd <sub>2</sub> O <sub>3</sub>	0.002	CuO	0.005
Sm <sub>2</sub> O <sub>3</sub>	0.001	Al <sub>2</sub> O <sub>3</sub>	0.01
Eu <sub>2</sub> O <sub>3</sub>		Na <sub>2</sub> O	-
Gd <sub>2</sub> O <sub>3</sub>		PbO	-
Tb <sub>2</sub> O <sub>3</sub>		NiO	-
Dy <sub>2</sub> O <sub>3</sub>		P	-
Ho <sub>2</sub> O <sub>3</sub>		S	-
Er <sub>2</sub> O <sub>3</sub>		Cl	0.008
Tm <sub>2</sub> O <sub>3</sub>		REO	99.0%
Yb <sub>2</sub> O <sub>3</sub>		L.O.I	<1%
Lu <sub>2</sub> O <sub>3</sub>			
Y <sub>2</sub> O <sub>3</sub>	0.001		

REO: rare earth oxide

TREO: total rare earth oxide

By: Mike Li