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## Material Certification Sheet

Product Name:	Scandium Oxide (Sc <sub>2</sub> O <sub>3</sub> ) Powder
Purity:	TREO >99.9%, Sc <sub>2</sub> O <sub>3</sub> /TREO >99.999%
AEM Part No.:	AEMREO-Sc <sub>2</sub> O <sub>3</sub>
Lot Number:	AEM2014122401
Date:	2014/12/24

Analysis Type: ICP-MS

REO Impurities (<)		Non-REO Impurities (<)	
La <sub>2</sub> O <sub>3</sub>	0.44µg/g	Fe <sub>2</sub> O <sub>3</sub>	23.0µg/g
CeO <sub>2</sub>	0.10µg/g	SiO <sub>2</sub>	30.0µg/g
Pr <sub>6</sub> O <sub>11</sub>	0.11µg/g	CaO	32.0µg/g
Nd <sub>2</sub> O <sub>3</sub>	1.95µg/g	MgO	<1.0µg/g
Sm <sub>2</sub> O <sub>3</sub>	1.78µg/g	Al <sub>2</sub> O <sub>3</sub>	6.0µg/g
Eu <sub>2</sub> O <sub>3</sub>	0.15µg/g	TiO <sub>2</sub>	17.0µg/g
Gd <sub>2</sub> O <sub>3</sub>	0.56µg/g	NiO	2.0µg/g
Tb <sub>4</sub> O <sub>7</sub>	0.10µg/g	ZrO <sub>2</sub>	<300.0µg/g
Dy <sub>2</sub> O <sub>3</sub>	2.02µg/g	Na <sub>2</sub> O	30.0µg/g
Ho <sub>2</sub> O <sub>3</sub>	0.10µg/g	V <sub>2</sub> O <sub>5</sub>	<1.0µg/g
Er <sub>2</sub> O <sub>3</sub>	0.11µg/g	CuO	2.0µg/g
Tm <sub>2</sub> O <sub>3</sub>	0.10µg/g	Th	<50.0µg/g
Yb <sub>2</sub> O <sub>3</sub>	0.32µg/g		
Lu <sub>2</sub> O <sub>3</sub>	0.10µg/g		
Y <sub>2</sub> O <sub>3</sub>	0.64µg/g		
TREO	>99.9%		
Sc <sub>2</sub> O <sub>3</sub> /TREO	>99.999%		

REO: rare earth oxide  
TREO: total rare earth oxide

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