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Material Certification Sheet

Product Name:	Yttrium (Y) Sputtering Target
Purity:	TREM >99.92%, Y/TREM >99.99%
AEM Part No.:	AEMST-Y
Lot Number:	AEM2013112001

Analysis Type: Typical, PPM by Wt.

RE Impurities (<)		Non-RE Impurities (<)							
Sc	1.0	Mn	1.0	K	1.0	Te	0.1	Pa	0.1
La	7.0	Fe	35.0	V	0.5	I	0.1	U	0.1
Ce	8.0	Si	15.0	Co	0.1	Cs	0.1	Np	0.1
Pr	10.0	Ca	15.0	Ga	0.1	Ba	0.2	Pu	0.1
Nd	10.0	Mg	10.0	Ge	0.1	Hf	0.1	Am	0.1
Sm	2.0	Cu	35.0	As	0.1	Re	0.1	Cm	0.1
Eu	1.0	Ni	10.0	Se	0.1	Os	0.1	Bk	0.1
Gd	10.0	Al	15.0	Rb	0.1	Ir	0.1	Cf	0.1
Tb	15.0	Zn	2.0	Sr	0.1	Pt	0.1	Es	0.1
Dy	15.0	Ti	2.0	Zr	0.1	Au	0.1	Fm	0.1
Ho	10.0	Mo	0.5	Nb	0.1	Hg	0.1	Md	0.1
Er	2.0	Cr	1.0	Yc	0.1	Ti	0.1	No	0.1
Tm	1.0	Pb	5.0	Ru	0.1	Lr	0.1	H	10.0
Yb	0.5	Ta	2.0	Rh	0.1	Bi	0.1	Br	2.0
Lu	5.0	W	1.0	Pd	0.1	Po	0.1	Cl	20.0
		Li	0.0	Ag	0.1	At	0.1	C	40.0
TREM	>99.95%	Be	0.0	Cd	0.1	Er	0.1	N	35.0
Y/TERM	>99.99%	B	0.0	In	0.1	Ra	0.1	O	160.0
		Na	0.0	Sn	0.1	Ac	0.1	F	35.0
		P	3.0	Sb	0.1	Tn	0.1		

By: _____