

Certificate of analysis

**Titanium sputtering target, 50.8mm (2.0in) dia x 6.35mm (0.250in) thick,
99.995 % (metals basis)**

**Stock Number: 43043
Lot number: K10Q023**

Analysis

H	1.5	Li	< 0.005	Be	< 0.005	B	< 0.01
C	10	N	10.5	O	165.5	F	< 0.05
Na	< 0.01	Mg	< 0.05	Al	1	Si	0.45
P	0.022	S	< 5	Cl	0.07	K	< 0.01
Ca	< 0.2	V	0.155	Cr	0.6	Mn	0.0275
Fe	4.5	Co	0.01	Ni	0.14	Cu	0.145
Zn	< 0.05	Ga	< 0.05	Ge	< 0.05	As	< 0.01
Se	< 0.05	Zr	0.85	Nb	< 0.2	Mo	< 0.05
Ru	< 0.01	Rh	< 0.15	Pd	< 0.01	Ag	< 0.05
Cd	< 0.05	In	< 0.05	Sn	< 0.05	Sb	< 0.05
Te	< 0.05	Cs	< 0.01	Ba	< 0.005	La	< 0.005
Hf	< 0.01	Ta	< 5	W	< 0.01	Re	< 0.01
Os	< 0.01	Ir	< 0.01	Pt	< 0.05	Au	< 0.05
Hg	< 0.1	Tl	< 0.01	Pb	< 0.01	Bi	< 0.01
Ce	< 0.005	Nd	< 0.005	Th	< 0.001	U	< 0.001

Values are given in ppm unless otherwise noted
Analysis method: GDMS/LECO

Certified by:



Quality Control

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