

Certificate of analysis

Cobalt sputtering target, 50.8mm (2.0in) dia x 3.18mm (0.125in) thick,
99.95% (metals basis)

Stock Number: 40834
Lot Number: L13W053

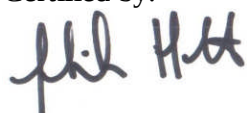
Analysis

Co 99.98 %

Ag	< 0.05	Al	0.81	As	0.22	Au	< 0.1
B	0.03	Ba	< 0.005	Be	< 0.005	Bi	0.06
Br	< 0.05	C	10	Ca	< 0.05	Cd	< 0.05
Ce	< 0.005	Cl	< 0.01	Cr	1.6	Cs	< 0.005
Cu	2.4	Dy	< 0.005	Er	< 0.005	Eu	< 0.005
F	< 0.01	Fe	6.7	Ga	< 0.05	Gd	< 0.005
Ge	< 0.05	Hf	< 0.01	Hg	< 0.05	Ho	< 0.005
I	< 0.01	In	< 0.01	Ir	0.03	K	< 0.01
La	< 0.05	Li	< 0.005	Lu	< 0.005	Mg	< 0.01
Mn	0.39	Mo	0.09	N	1	Na	0.04
Nb	0.25	Nd	< 0.005	Ni	88	O	26
Os	< 0.01	P	0.22	Pb	0.09	Pd	< 0.01
Pr	< 0.005	Pt	< 0.05	Rb	< 0.005	Re	0.1
Rh	< 0.01	Ru	< 0.05	S	2	Sb	< 0.01
Sc	< 0.001	Se	< 0.05	Si	3.4	Sm	< 0.005
Sn	< 0.05	Sr	< 0.005	Ta	< 0.1	Tb	< 0.005
Te	< 0.01	Th	< 0.001	Ti	0.09	Tl	< 0.005
Tm	< 0.005	U	< 0.001	V	0.03	W	0.03
Y	< 0.005	Yb	< 0.005	Zn	0.13	Zr	< 0.005

Values given in ppm unless otherwise noted
Carbon, hydrogen, nitrogen and sulfur determined by LECO
All other elements determined by GDMS

Certified by:



Quality Control

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