

Certificate of analysis

Product No.: 42224

Product: Vanadium wire, 1.5mm (0.06in) dia, 99.8% (metals basis)

Lot No.: W06D020

V 99.8 %

Ag	< 0.1	Al	57	As	0.06	Au	< 0.05
B	1.9	Ba	< 0.01	Be	< 0.01	Bi	< 0.005
Br	< 0.05	C	73	Ca	< 0.1	Cd	< 0.05
Ce	< 0.005	Cl	0.13	Co	0.11	Cr	< 0.05
Cs	< 0.01	Cu	2.7	Dy	< 0.005	Er	< 0.005
Eu	< 0.005	F	< 0.05	Fe	92	Ga	< 0.05
Gd	< 0.005	Ge	< 0.1	H	21	Hf	< 0.01
Hg	< 0.1	Ho	< 0.005	I	< 0.01	In	< 0.05
Ir	< 0.01	K	0.08	La	< 0.01	Li	< 0.01
Lu	< 0.005	Mg	< 0.01	Mn	< 0.01	Mo	8.1
N	81	Na	0.05	Nb	1.1	Nd	< 0.005
Ni	7.4	O	170	Os	< 0.01	P	7
Pb	< 0.01	Pd	< 0.05	Pr	< 0.005	Pt	< 0.05
Rb	< 0.01	Re	< 0.01	Rh	< 0.01	Ru	< 0.05
S	9.7	Sb	< 0.05	Sc	< 0.01	Se	< 0.1
Si	300	Sm	< 0.005	Sn	< 0.05	Sr	< 0.5
Ta**	< 5	Tb	< 0.005	Te	< 0.05	Th	< 0.005
Ti	1.9	Tl	< 0.005	Tm	< 0.005	U	< 0.005
W	0.37	Y	< 0.5	Yb	< 0.005	Zn	< 0.05
Zr	< 2.5						

Carbon determined with C-IR

Hydrogen and Nitrogen determined with IGF-TC

Oxygen determined with IGF-NDIR

All other elements determined with GDMS

Values given in ppm unless otherwise noted.

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