

# Certificate of analysis

Product No.: 42830  
 Product: Vanadium slug, 6.35mm (0.25in) dia x  
 6.35mm (0.25in) length, 99.8% (metals basis)  
 Lot No.: Z19D003

V 99.95 %

Ag	< 0.1	Al	100	As	0.2	Au	< 0.05
B	1.7	Ba	< 0.01	Be	< 0.01	Bi	< 0.005
Br	< 0.05	C	64	Ca	< 0.1	Cd	< 0.05
Ce	< 0.005	Cl	0.28	Co	0.09	Cr	0.2
Cs	< 0.01	Cu	0.13	Dy	< 0.005	Er	< 0.005
Eu	< 0.005	F	< 0.05	Fe	30	Ga	< 0.05
Gd	< 0.005	Ge	< 0.1	H	< 1	Hf	< 0.01
Hg	< 0.1	Ho	< 0.005	I	< 0.01	In	< 0.05
Ir	< 0.01	K	< 0.05	La	< 0.01	Li	< 0.01
Lu	< 0.005	Mg	< 0.01	Mn	< 0.01	Mo	12
N	47	Na	< 0.01	Nb	0.59	Nd	< 0.005
Ni	8.9	O	130	Os	< 0.01	P	19
Pb	< 0.01	Pd	< 0.05	Pr	< 0.005	Pt	0.25
Rb	< 0.01	Re	< 0.01	Rh	< 0.01	Ru	< 0.05
S	20	Sb	< 0.05	Sc	< 0.01	Se	< 0.1
Si	310	Sm	< 0.005	Sn	< 0.05	Sr	< 0.5
Ta	< 5	Tb	< 0.005	Te	< 0.05	Th	< 0.005
Ti	1.5	Tl	< 0.005	Tm	< 0.005	U	< 0.005
W	1	Y	< 0.5	Yb	< 0.005	Zn	< 0.05
Zr	2						

Values given in ppm unless otherwise noted  
 Carbon, Hydrogen, Nitrogen, and Oxygen determined by IGA  
 All other elements determined by GDMS

This document has been electronically generated and does not require a signature.

# Certificate of analysis

This document has been electronically generated and does not require a signature.

Order our products online [www.alfa.com](http://www.alfa.com)

**ThermoFisher**  
SCIENTIFIC