Analysis of Titanium Alloy (Ti-6Al-4V)

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RESULTS OF ANALYSIS FOR IARM STANDARD 175A
MATERIAL: TITANIUM ALLOY (Ti-6Al-4V) UNS R56401

ELEMENT	RUN#1	RUN#2	RUN#3	AVERAGE	CERT.	% REL	STDEV	RSD
Al %	6.15	6.13	6.14	6.14	6.20	0.96	0.010	0.15
V %	4.14	4.14	4.14	4.14	4.08	1.43	0.002	0.04
C %	0.013	0.015	0.012	0.013	0.014	5.24	0.002	11.5
Cr %	0.014	0.014	0.014	0.014	0.013	5.64	0.0001	0.42
Cu %	0.0052	0.0051	0.0053	0.0052	0.005	4.00	0.0001	1.92
Fe %	0.18	0.19	0.21	0.19	0.20	2.67	0.017	8.96
Si %	0.018	0.021	0.019	0.019	0.019	1.93	0.001	7.52
Ti %	89.48	89.49	89.46	89.48	—	—	—	—

Analysis of Titanium Alloy (Ti-6Al-4V) using the LECO GDS500A. The sample was prepared by grinding with a 320-grit zirconium oxide disk with water using a LECO VP Polisher/Grinder.

Parameters
Grimm-Style 4 mm lamp
Voltage: 800 V
Current: 35 mA

For questions on this analysis e-mail us at: info@leco.com

For a complete listing of snapshots and performance notes visit us on the web at www.leco.com in the Spectroscopy section of the Applications Library.

Spectroscopy Application Snapshot