

REFERENCE TUNGSTEN ORE TLG-1

CERTIFICATE OF ANALYSIS

Consensus Value		95% Confidence Interval
W	0.083%	±0.004%

DESCRIPTION

TLG-1 is a sample of a low-grade scheelite ore from Browne's Lake Mine, Beaverhead County, Montana; it was donated by General Electric Company Limited, Cleveland, Ohio. In decreasing order of abundance, minerals present are: quartz, calcite, hydrogarnet, amphibole, dolomite, chlorite, feldspar, mica, clay minerals and scheelite. The approximate chemical composition is:

	wt %		wt %
Si	21.5	K	0.4
Ca	16.6	S	0.1
Fe(total)	8.6	Na	0.2
Al	3.0	Ti	0.1
Mg	2.7	W	0.083
C(total)	1.4	Mo	<0.01
Mn	1.3		

TLG-1 did not require comminution. It was screened at minus 74 μm , blended and sampled systematically for analysis by X-ray fluorescence and chemical methods to demonstrate homogeneity sufficient for use as a compositional reference material for tungsten, and bottled in 200-g units.

CERTIFICATION

The consensus value for tungsten is the unweighted mean of 164 accepted analytical determinations by 15 laboratories. The summary of results according to analytical method gives:



Method	No. of Laboratories	No. of Determinations	Mean Value (wt %)
Peroxide fusion*	7	74	0.082
Pyrosulphate fusion*	4	35	0.084
HF-HCl-H ₃ PO ₄ *	4	35	0.087
X-ray fluorescence	2	20	0.081

*By thiocyanate-absorptiometric finish

LEGAL NOTICE

The Canadian Certified Reference Materials Project has prepared this reference material and statistically evaluated the analytical data of the interlaboratory certification program to the best of its ability. The Purchaser by receipt hereof releases and indemnifies the Canadian Certified Reference Materials Project from and against all liability and costs arising out of the use of this material and information.

REFERENCE

The preparation and certification procedures used for TLG-1 are given in CANMET Report

76-5 "Tungsten ores CT-1, BH-1 and TLG-1: Their characterization and preparation for use as certified reference materials" which is available free of charge on request to:

Coordinator, CCRMP
CANMET
555 Booth Street
Ottawa, Ontario K1A 0G1
Canada

This Certificate of Analysis is available in French on request to the Coordinator, CCRMP.