

CANADA CENTRE FOR MINERAL AND ENERGY TECHNOLOGY

REFERENCE NIOBIUM ORE OKA-1

CERTIFICATE OF ANALYSIS

Consensus Value		95% Confidence Interval
Nb	0.37 %	± 0.01 %

DESCRIPTION

OKA-1 is a sample of carbonatite ore from Oka, Quebec. The major mineralogical components are 84% calcite, 5% apatite, 2% of each of biotite, feldspar and magnetite, and 1% of each of dolomite, siderite, clays and chlorite; pyrochlore is the niobium bearing mineral. The ore was dry-ground to minus 74 µm, blended, sampled systematically for analysis by X-ray fluorescence and chemical methods to demonstrate homogeneity sufficient for use as a compositional reference material for niobium, and bottled in 200-g units.

CERTIFICATION

The consensus value for niobium is the unweighted mean of 267 accepted analytical determinations by 20 laboratories. The summary of results according to analytical method gives:

Method	No. of Laboratories	No. of Determinations	Mean value (%)
X-ray Fluorescence	10	125	0.37
Colorimetry	5	91	0.37
D.C. Plasma Emission Spectrometry	2	20	0.38
Gravimetry	1	10	0.39
Atomic Emission	2	17	0.36
Atomic Absorption	1	4	0.39

LEGAL NOTICE

The Canadian Certified Reference Materials Project has prepared this reference material and statistically evaluated the analytical data



of the inter-laboratory 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 OKA-1 are given in CANMET Report 81-1E "OKA-1: A certified niobium reference ore" which is avail-

able free of charge on application 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.