

CANADA CENTRE FOR MINERAL AND ENERGY TECHNOLOGY

REFERENCE TANTALUM ORE TAN-1

CERTIFICATE OF ANALYSIS

Consensus Value	95% Confidence Interval
Ta	0.236 ± 0.005 %
Ta ₂ O ₅	0.288 ± 0.006 %

DESCRIPTION

TAN-1 is a sample of tantalum ore typical of the deposit of the Tantalum Mining Corporation of Canada Limited) at Bernic Lake, Manitoba. The tantalum occurs in wodgenite and microlite which are found in zones of partially seriticized perititic microcline and of relatively unaltered,

fine-grained bluish-white aplitic albite in the pegmatite deposit. The ore was dry-ground to minus 74 μm , blended and bottled in 200-g units. The stock was sampled systematically and analyzed by an X-ray fluorescence procedure to demonstrate homogeneity sufficient for use as a compositional reference material for tantalum.

CERTIFICATION

The consensus value for tantalum is the unweighted mean of 126 accepted analytical determinations by 19 laboratories. The summary of results according to analytical method gives:



Method	No. of		Mean Value
	Labora- tories	No. of Results	
X-ray fluorescence	8	48	0.240
DCP-optical emission	4	28	0.235
ICP-atomic emission	3	15	0.230
Neutron activation analysis	3	15	0.232
Calorimetry	2	10	0.233
Atomic Absorption	1	5	0.245
Gravimetry	1	5	0.234

INSTRUCTIONS FOR USE

The recommended value for TAN-1 pertains to an "as is" basis.

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 TAN-1 are given in CANMET Report 83-10E "TAN-1: A certified tantalum reference ore" which is available free of charge on application to:

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

Pour obtenir la version française du présent certificat d'analyse, prière de s'adresser au Coordinateur du CCRMP.