

National Bureau of Standards Certificate

Standard Reference Material 45d

Copper

Secondary Freezing Point Standard

(International Practical Temperature Scale – 1968)

1084.8 °C

The freezing point given above is that of representative samples from lot 45d. It is a secondary standard and is not necessarily the same as the freezing point of pure copper. It is estimated that the uncertainty in the NBS certified value of the freezing point does not exceed ± 0.5 degree. (The estimated uncertainty includes the imprecision and possible systematic errors of the measurements.)

Full details of the precautions that should be observed in freezing point determinations are given in National Bureau of Standards Circular 590. [For procedures employing purer metal samples, see Metrologia 7, No. 3, 108-130 (July 1971).] The International Practical Temperature Scale of 1968 is described in Metrologia 5, No. 2, 35-44 (April 1969). This is a revision of the certificate dated November 6, 1961, and consists primarily of the conversion of IPTS (1948) to IPTS (1968) by G. T. Furukawa.

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J. Paul Cali, Chief
Office of Standard Reference Materials