



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

DATE: 27 May 2015

Product Identifier

SRM Number: 1749
SRM Name: Gold versus Platinum Thermocouple
Certified Thermometer for the Range 0 °C to 1000 °C
on the International Temperature Scale of 1990

Under the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this Standard Reference Material (SRM) is NOT classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified. There are no hazard pictograms, hazard statements or signal word associated with it. Safety Data Sheet information is not required. This document may be used in conjunction with your hazard communication program.

Exemption: 1910.1200 (c). This SRM is an Article, as the word is defined by OSHA, where *Article* means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of 1910.1200), and does not pose a physical hazard or health risk to employees.

Description: This SRM is intended for use as a highly accurate secondary reference thermometer in the range from 0 °C to 1000 °C. A unit of SRM 1749 consists of a specially constructed gold versus platinum (Au/Pt) thermocouple, individually calibrated on the International Temperature Scale of 1990 (ITS-90). This SRM has an overall length of 1.9 m, as measured from the tip of the silica-glass sheath (7.0 mm outer diameter, 71 cm long) to the tip of the stainless steel sheath of the reference-junction probe (6.3 mm outer diameter, 28 cm long). The copper leads from the reference-junction probe of the SRM are 2.1 m long.

Disposal: SRM 1749 should be disposed of in accordance with local, state, and federal regulations.

Transport Information: This material is not regulated by the U.S. Department of Transportation (DOT) and/or International Air Transportation Association (IATA).

Disclaimer: This document was prepared carefully, using current references. Users of this SRM should ensure that this document and the corresponding Certificate in their possession are current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at <http://www.nist.gov/srm>.