

## Thermometry, Chile, CESMEC (Centro de Estudios, Medicion y Certificacion de Calidad)

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty					Comments
Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	
Temperature	Platinum Resistance Thermometer	Comparison, stirred alcohol bath	-40	10	°C			15	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Platinum Resistance Thermometer	Comparison, stirred water bath	10	90	°C			10	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Platinum Resistance Thermometer	Comparison, stirred silicon oil bath	90	250	°C			15	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Platinum Resistance Thermometer	Comparison, vertical block furnace	250	450	°C			50	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Platinum Resistance Thermometer	Comparison, vertical block furnace	450	660	°C			70	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Digital System Thermometers (PRT sensors)	Comparison, stirred alcohol bath	-40	10	°C			25	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Digital System Thermometers (PRT sensors)	Comparison, stirred water bath	10	90	°C			15	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007

**Thermometry, Chile, CESMEC (Centro de Estudios, Medicion y Certificacion de Calidad)**

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty					Comments
Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	
Temperature	Digital System Thermometers (PRT sensors )	Comparison, stirred silicon oil bath	90	250	°C			25	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Digital System Thermometers (PRT sensors )	Comparison, vertical block furnace	250	450	°C			50	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007
Temperature	Digital System Thermometers (PRT sensors )	Comparison, vertical block furnace	450	660	°C			70	mK	2	95%	No	Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the Calibration Report Approved on 12 July 2007