Selection guides

Primary standards

Standard platinum resistance thermometers (SPRTs)		
Model	RTPW	Description
5681	25.5 Ω	–200 °C to 670 °C, quartz sheath
5683	25.5 Ω	–200 °C to 480 °C, quartz sheath
5684	0.25 Ω	0 °C to 1070 °C, quartz sheath
5685	2.5 Ω	0 °C to 1070 °C, quartz sheath
5698	25.5 Ω	–200 °C to 670 °C, working standard, quartz sheath
5699	25.5 Ω	–200 °C to 670 °C, high temperature, metal sheath
5686	25.5 Ω	–260 °C to 232 °C, glass capsule

ITS-90 fixed-point cells

Model	Description	Temperature
Triple point of water cells		
5901A-G	TPW Cell, 12 mm ID with handle, glass shell	0.01 °C
5901A-Q	TPW Cell, 12 mm ID with handle, quartz shell	0.01 °C
5901C-G	TPW Cell, 13.6 mm ID with handle, glass shell	0.01 °C
5901C-Q	TPW Cell, 13.6 mm ID with handle, quartz shell	0.01 °C
5901D-G	TPW Cell, 12 mm ID, glass shell	0.01 °C
5901D-Q	TPW Cell, 12 mm ID, quartz shell	0.01 °C
5901B-G	TPW Cell, mini, glass shell	0.01 °C
Standard size fixed-point cells		
5900E	TP mercury, SST	–38.8344 °C
5904	Freezing point of indium	156.5985 °C
5905	Freezing point of tin	231.928 °C
5906	Freezing point of zinc	419.527 °C
5907	Freezing point of aluminum	660.323 °C
5908	Freezing point of silver	961.78 °C
5909	Freezing point of copper	1084.62 °C
5924	Open freezing point of indium	156.5985 °C
5925	Open freezing point of tin	231.928 °C
5926	Open freezing point of zinc	419.527 °C
5927A	Open freezing point of aluminum	660.323 °C
5928	Open freezing point of silver	961.78 °C
5929	Open freezing point of copper	1084.62 °C
5943	Melting point of gallium, SST	29.7646 °C
Mini triple point of water and fixed-point cells		
5901B	Mini triple point of water	0.01 °C
5914A	Mini freezing point of indium	156.5985 °C
5915A	Mini freezing point of tin	231.928 °C
5916A	Mini freezing point of zinc	419.527 °C
5917A	Mini freezing point of aluminum	660.323 °C
5918A	Mini freezing point of silver	961.78 °C
5919A	Mini freezing point of copper	1084.62 °C
5944	Mini freezing point of indium, metal cased	156.5985 °C
5945	Mini freezing point of tin, metal cased	231.928 °C
5946	Mini freezing point of zinc, metal cased	419.527 °C
5947	Mini freezing point of aluminum, metal cased	660.323 °C

Model	Features/use
Maintenance apparatus	
7012	Maintains: triple point of water and gallium cells. Comparisons: –10 °C to 110 °C.
7037	Maintains: triple point of water and gallium cells. Comparisons: –40 °C to 110 °C.
7312	Maintains: two TPW cells. Compact size, runs quietly. Comparisons: –5 °C to 110 °C.
7341	Maintains: triple point of mercury cell. Comparisons: –45 °C to 150 °C.
9210	Maintains: mini triple point of water. Comparisons: –10 °C to 125 °C.
9230	Maintains: stainless steel gallium cell. Comparisons: 15 °C to 35 °C.
9260	Maintains: indium, tin, zinc, and aluminum cells. Comparisons: 50 °C to 680 °C.
9114	Maintains: indium, tin, zinc, and aluminum cells. Comparisons: 100 °C to 680 °C.
9115A	Maintains: aluminum and silver cells. Comparisons: 550 °C to 1000 °C.
9116A	Maintains: aluminum, silver, gold, and copper cells. Comparisons: 400 °C to 1100 °C.
9117	Anneals SPRTs, HTPRTs, and thermocouples to 1100 °C. Protects them against contamination from metal ions.
Boiling point of liquid nitrogen	
7196	Affordable substitute for a triple point of argon system. Provides for low-temperature comparison calibrations at approximately –196 °C with uncertainties of 2 mK.
Triple point of argon system	
5960A	Lowest uncertainty for any commercially available triple point of argon system.
Standard resistors	
742A	Excellent performance without oil or air baths. Values from 1 ohm to 19 megohm.
5430	Highest stability oil-filled resistors (< 2 ppm/year drift). AC cal uncertainty to 3 ppm.