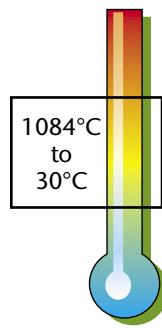


Fixed-Point Cells for Blackbody Sources



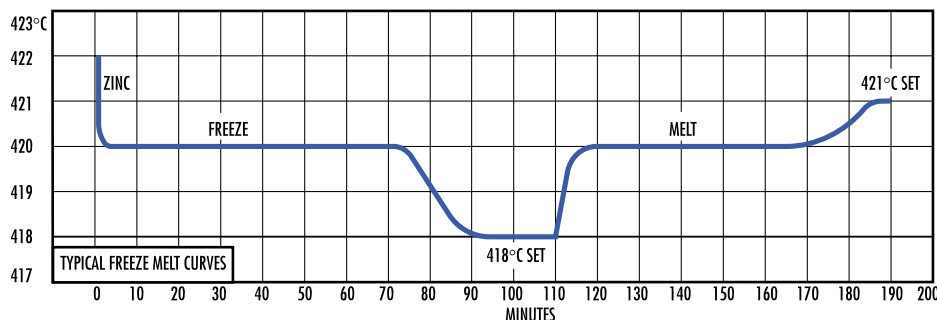
Isotech has worked with the world's leading suppliers of infrared temperature measurement equipment, national labs, and industry professionals to develop an outstanding range of Blackbody Fixed-Point Cells. These cells are used to correlate radiation thermometers to the ITS-90 Scale as well as provide the highest accuracy Blackbody Sources available.

Three ranges exist, our primary cells, used with our large apparatus, the Medusa or Oberon, and Medium and High Temperature Secondary Cells. The Medium-Temperature Cells slide into our Gemini R apparatus while the High-Temperature Cells work with our Pegasus R model.

All Cells contain 99.9999% pure metals and will provide a melt or freeze curve to within $\pm 0.01^\circ\text{C}$. The Primary Cells used in our larger sources will provide significantly longer plateaus.

The results, as seen by a radiation pyrometers, which are slightly sensitive to wall temperature, give uncertainties of better than $\pm 0.25^\circ\text{C}$.

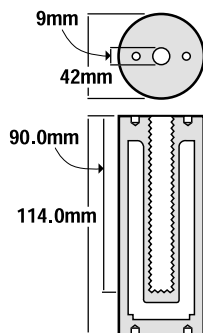
Easy replacement allows one apparatus to work with multiple cells.



Contact Isotech for Argon Flow Accessories.

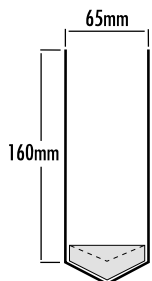
Key Features

- Primary Standard Fixed Points
- Unique Patented Design
- High Accuracy
- Blackbody Radiation Sources
- Long Flat Plateau
- ITS-90 Fixed Points



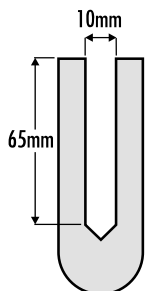
PRIMARY CELL

998-06-00A	Indium	156.60°C
998-06-00B	Tin	231.93°C
998-06-00C	Zinc	419.53°C
998-06-00D	Aluminum	660.32°C
998-06-00E	Silver	961.78°C
998-06-00F	Gold	1064.18°C
998-06-00G	Copper	1084.620°C



MEDIUM-TEMP SECONDARY CELL

431-03-00	Gallium	29.76°C
976-05-00A	Indium	156.60°C
976-05-00B	Tin	231.93°C
976-05-00C	Zinc	419.53°C
Emissivity	.999 \pm .001	
Melt Plateau	1 to 6 hours	



HIGH-TEMP SECONDARY CELL

970-06-00A	Indium	156.60°C
970-06-00B	Tin	231.93°C
970-06-00C	Zinc	419.53°C
970-06-00D	Aluminum	660.32°C
970-06-00E	Silver	961.78°C
Emissivity	0.995 \pm 0.002	
Melt Plateau	30 minutes to 1 hour	

HOW TO ORDER

Specify model # from charts above

INFRARED