

ASTM THERMOMETERS

All of the ASTM thermometers listed in this catalog are produced by manufacturers of outstanding quality located in the United States and Germany. Strict manufacturing procedures and quality controls ensure the fabrication of thermometers which are fully in compliance with the dimensional and accuracy requirements of **ASTM Specification E-1**.

ASTM technical committee E:20.05 (Liquid-in-Glass Thermometers and Hydrometers) works closely with the Institute of Petroleum of Great Britain (IP) in the development of thermometers for use in recognized test methods. Accordingly, many ASTM thermometers also carry an IP designation, indicating that these items comprise a **joint specification**. The designation numbers the IP assigns are different than the numbers ASTM has assigned, but the instruments are equal in every detail. For example, an ASTM 12C thermometer (below) and an IP 64C are exactly the same instrument.

Unfortunately, ASTM specifications do not require that the corresponding IP designation, where it exists, be engraved on the thermometer. IP specifications do not require the engraving of the corresponding ASTM number!

ICL has carefully researched the cross-referencing which appears below for your convenience.

One more note: with the metrification of the European Union, the IP has dropped all Fahrenheit thermometer designations, however, a number of existing test methods call for the use of IP Fahrenheit thermometers. In recognition of this need, we have listed the (former) equivalents where applicable.

The IP thermometers are very popular outside the States, and are often referenced within the States as well when European or other international test methods are utilized.

ASTM THERMOMETERS

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
1C		10001C	Partial Immersion	-20 to 150°C	1°	322mm	76mm
		10001C-C	1C CALIBRATED @ ASTM	specified test points of -20, 0, 50, 100, 150°C			
1F		10001F	Partial Immersion	0 to 302°F	2°	322mm	76mm
		10001F-C	1F CALIBRATED @ ASTM	specified test points of 0, 32, 122, 212, 302°F			
2C	62C	10002C	Partial Immersion	-5 to 300°C	1°	390mm	76mm
		10002C-C	2C CALIBRATED @ ASTM	specified test points of 0, 75, 150, 225, 300°C			
2F	62F	10002F	Partial Immersion	20 to 580°F	2°	390mm	76mm
		10002F-C	2F CALIBRATED @ ASTM	specified test points of 32, 150, 300, 450, 580°F			
3C	73C	10003C	Partial Immersion	-5 to 400°C	1°	415mm	76mm
		10003C-C	3C CALIBRATED @ ASTM	specified test points of 0, 100, 200, 300, 370°C			
3F	73F	10003F	Partial Immersion	20 to 760°F	2°	415mm	76mm
		10003F-C	3F CALIBRATED @ ASTM	specified test points of 32, 200, 370, 540, 700°F			
4C		10004C	Acid Heat	-1 to 105°C	0.5°	375mm	152mm
		10004C-C	4C CALIBRATED @ ASTM	specified test points of 0, 50, 100°C			
4F		10004F	Acid Heat	30 to 220°F	1°	375mm	152mm
		10004F-C	4F CALIBRATED @ ASTM	specified test points of 32, 122, 212°F			
5C	1C	10005C	Cloud & Pour, High	-38 to 50°C	1°	230mm	108mm
		10005C-C	5C CALIBRATED @ ASTM	specified test points of -35, 0, 50°C			
5F	1F	10005F	Cloud & Pour, High	-36 to 120°F	2°	230mm	108mm
		10005F-C	5F CALIBRATED @ ASTM	specified test points of -30, 32, 120°F			
6C	2C	10006C	Cloud & Pour, Low	-80 to 20°C	1°	230mm	76mm
		10006C-C	6C CALIBRATED @ ASTM	specified test points of -70, -35, 0, 20°C			
6F	2F	10006F	Cloud & Pour, Low	-112 to 70°F	2	230mm	76mm
		10006F-C	6F CALIBRATED @ ASTM	specified test points of -94, -30, 32, 70°F			
7C	5C	10007C	Distillation, Low	-2 to 300°C	1°	385mm	total
		10007C-C	7C CALIBRATED @ ASTM	specified test points of 0, 50, 100, 150, 200, 250, 300°C			
7F		10007F	Distillation, Low	30 to 580°F	2°	385mm	total
		10007F-C	7F CALIBRATED @ ASTM	specified test points of 32, 100, 200, 300, 400, 500, 570°F			
8C	6C	10008C	Distillation, High	-2 to 400°C	1°	385mm	total
		10008C-C	8C CALIBRATED @ ASTM	specified test points of 0, 100, 200, 300, 370°C			
8F		10008F	Distillation, High	30 to 760°F	2°	385mm	total
		10008F-C	8F CALIBRATED @ ASTM	specified test points of 32, 200, 370, 540, 700°F			



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ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
9C	15C	10009C	Pensky-Martens, Low	- 5 to 110°C	0.5°	290mm	57mm
		10009C-C	9C CALIBRATED @ ASTM specified test points of	0, 35, 70, 105°C			
9F	15F	10009F	Pensky-Martens, Low	20 to 230°F	1°	290mm	57mm
		10009F-C	9F CALIBRATED @ ASTM specified test points of	32, 100, 160, 220°F			
		Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10009C-S	Pensky-Martens, Low	- 5 to 110°C	0.5°	290mm	57mm
Non-Mercury		10009C-S-C	9C Replica CALIBRATED @ ASTM specified test points of	0, 35, 70, 105°C			
Non-Mercury		10009F-S	Pensky-Martens, Low	20 to 230°F	1°	290mm	57mm
Non-Mercury		10009F-S-C	9F Replica CALIBRATED @ ASTM specified test points of	32, 100, 160, 220°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
10C	16C	10010C	Pensky-Martens, High	90 to 370°C	2°	290mm	57mm
		10010C-C	10C CALIBRATED @ ASTM specified test points of	100, 200, 300, 370°C			
10F	16F	10010F	Pensky-Martens, High	200 to 700°F	5°	290mm	57mm
		10010F-C	10F CALIBRATED @ ASTM specified test points of	212, 390, 570, 700°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
11C	28C	10011C	Open Flash	-6 to 400°C	2°	310mm	25mm
		10011C-C	11C CALIBRATED @ ASTM specified test points of	0, 100, 200, 300, 370°C			
11F	28F	10011F	Open Flash	20 to 760°F	5°	310mm	25mm
		10011F-C	11F CALIBRATED @ ASTM specified test points of	32, 200, 370, 540, 700°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
12C	64C	10012C	Gravity (Density)	-20 to 102°C	0.2°	420mm	total
		10012C-C	12C CALIBRATED @ ASTM specified test points of	-20, -10, 0, 10, 20, 30, 40, 50, 60, 70, 80, 90,			
100°C							
12F	64F	10012F	Gravity (Density)	-5 to 215°F	0.5°	420mm	total
		10012F-C	12F CALIBRATED @ ASTM specified test points of	-5, 15, 32, 60, 85, 110, 135, 160, 185, 210°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
13C	47C	10013C	Loss on Heat	155 to 170°C	0.5°	155mm	total
		10013C	13C CALIBRATED @ ASTM specified test points of	155, 163, 170C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
14C	17C	10014C	Paraffin Wax Melt Point	38 to 82°C	0.1°	375mm	79mm
		10014C-C	14C CALIBRATED @ ASTM specified test points of	40, 50, 60, 70, 80°C			
14F	17F	10014F	Paraffin Wax Melt Point	100 to 180°F	0.2°	375mm	79mm
		10014F-C	14F CALIBRATED @ ASTM specified test points of	100, 120, 140, 160, 180°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
15C	60C	10015C	Softening Point, Low	-2 to 80°C	0.2°	397mm	total
		10015C-C	15C CALIBRATED @ ASTM specified test points of	0, 20, 40, 60, 80°C			
15F		10015F	Softening Point, Low	30 to 180°F	0.5°	397mm	total
		10015F-C	15F CALIBRATED @ ASTM specified test points of	32, 70, 100, 140, 180F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
16C	61C	10016C	Softening Point, High	30 to 200°C	0.5°	397mm	total
		10016C-C	16C CALIBRATED @ ASTM specified test points of	30, 60, 90, 120, 150, 180, 200°C			
16F		10016F	Softening Point, High	85 to 392°F	1°	397mm	total
		10016F-C	16F CALIBRATED @ ASTM specified test points of	90, 140, 190, 240, 290, 340, 390°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
17C		10017C	Viscosity Saybolt	19 to 27°C	0.1°	275mm	total
		10017C-C	17C CALIBRATED @ ASTM specified test points of	21, 25°C			
17F		10017F	Viscosity Saybolt	66 to 80°F	0.2°	275mm	total
		10017F-C	17F CALIBRATED @ ASTM specified test points of	70, 77°F			
		Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10017F-S	Viscosity Saybolt	66 to 80°F	0.2°	275mm	total
Non-Mercury		10017F-S-C	Replica 17F CALIBRATED @ ASTM specified test points of	70, 77°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
18C	23C	10018C	Say Vis & Reid Vapor	34 to 42°C	0.1°	275mm	total
		10018C-C	18C CALIBRATED @ ASTM specified test points of	38, 41°C			
18F	23F	10018F	Say Vis & Reid Vapor	94 to 108°F	0.2°	275mm	total
		10018F-C	18F CALIBRATED @ ASTM specified test points of	100, 107°F			



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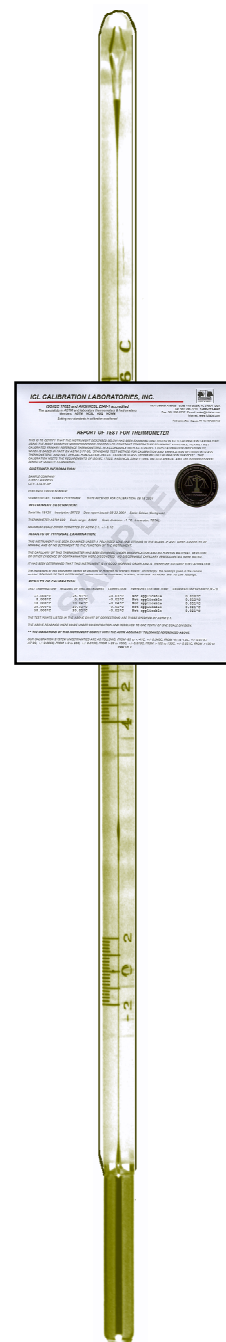
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ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
19C		10019C	Viscosity Saybolt	49 to 57°C	0.1°	275mm	total
		10019C-C	19C CALIBRATED @ ASTM	specified test points	of 50, 54°C		
19F		10019F	Viscosity Saybolt	120 to 134°F	0.2°	275mm	total
		10019F-C	19F CALIBRATED @ ASTM	specified test points	of 122, 130°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
20C		10020C	Viscosity Saybolt	57 to 65°C	0.1°	275mm	total
		10020C-C	20C CALIBRATED @ ASTM	specified test points	of 60, 64°C		
20F		10020F	Viscosity Saybolt	134 to 148°F	0.2°	275mm	total
		10020F-C	20F CALIBRATED @ ASTM	specified test points	of 140, 147°F		
		Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10020F-S	Viscosity Saybolt	134 to 148°F	0.2°	275mm	total
Non-Mercury		10020F-S-C	Replica 20F CALIBRATED @ ASTM	specified test points	of 140, 147°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
21C		10021C	Viscosity Saybolt	79 to 87°C	0.1°	275mm	total
		10021C-C	21C CALIBRATED @ ASTM	specified test points	of 82, 86°C		
21F		10021F	Viscosity Saybolt	174 to 188°F	0.2°	275mm	total
		10021F-C	21F CALIBRATED @ ASTM	specified test points	of 180, 187°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
22C	24C	10022C	Say Vis & Oxy Stab.	95 to 103°C	0.1°	275mm	total
		10022C-C	22C CALIBRATED @ ASTM	specified test points	of 99, 102°C		
22F	24F	10022F	Say Vis & Oxy Stab.	204 to 218°F	0.2°	275mm	total
		10022F-C	22F CALIBRATED @ ASTM	specified test points	of 210, 212°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
23C		10023C	Viscosity Engler	18 to 28°C	0.2°	212mm	90mm
		10023C-C	23C CALIBRATED @ ASTM	specified test points	of 20, 25°C		
24C		10024C	Viscosity Engler	39 to 54°C	0.2°	237mm	90mm
		10024C-C	24C CALIBRATED @ ASTM	specified test points	of 40, 50°C		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
25C		10025C	Viscosity Engler	95 to 105 ° C	0.2°	212mm	90mm
		10025C-C	25C CALIBRATED @ ASTM	specified test points	of 95, 100°C		
26C		10026C	Stab Test Sol Nit Cell	130 to 140 ° C	0.1°	463mm	total
		10026C-C	26C CALIBRATED @ ASTM	specified test points	of 130, 135, 140°C		
27C		10027C	Turpentine Dist.	147 to 182 ° C	0.5°	301mm	76mm
		10027C-C	27C CALIBRATED @ ASTM	specified test points	of 155, 165, 175°C		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
28C	31C	10028C	Kin Vis @ 37.8C	36.6 to 39.4 ° C	0.05°	305mm	total
		10028C-C	28C CALIBRATED @ ASTM	specified test points	of 0, 37.8, 39°C		
28F		10028F	Kin Vis @ 100F	97.5 to 102.5 ° F	0.1°	305mm	total
		10028F-C	28F CALIBRATED @ ASTM	specified test points	of 32, 100, 102°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
29C	34C	10029C	Kin Vis @ 54.4C	52.6 to 55.4 ° C	0.05°	305mm	total
		10029C-C	29C CALIBRATED @ ASTM	specified test points	of 0, 54.4C, 55°C		
29F		10029F	Kin Vis @ 130F	127.5 to 132.5 ° F	0.1°	305mm	total
		10029F-C	29F CALIBRATED @ ASTM	specified test points	of 32, 130, 132°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
30F	32F	10030F	Kin Vis @ 210F	207.5 to 212.5°F	0.1°	305mm	total
		10030F-C	30F CALIBRATED @ ASTM	specified test points	of 32, 210, 212°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
31F		10031F	Reid Vapor	-30 to 120°F	1°	305mm	total
		10031F-C	31F CALIBRATED @ ASTM	specified test points	of -20, 32, 100°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
33C	20C	10033C	Aniline Point	-38 to 42°C	0.2°	420mm	50mm
		10033C-C	33C CALIBRATED @ ASTM	specified test points	of -35, -20, 0, 20, 40°C		
33F		10033F	Aniline Point	-36.5 to 107.5F	0.5°	420mm	50mm
		10033F-C	33F CALIBRATED @ ASTM	specified test points	of -31, -4, 32, 68, 104°F		



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ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
34C	21C	10034C	Aniline Point	25 to 105°C	0.2°	420mm	50mm
		10034C-C	34C CALIBRATED @ ASTM	specified test points of 25, 45, 65, 85, 100°C			
34F		10034F	Aniline Point	77 to 221°F	0.5°	20mm	50mm
		10034F-C	34F CALIBRATED @ ASTM	specified test points of 77, 113, 149, 185, 212°F			
35C	59C	10035C	Aniline Point	90 to 170°C	0.2°	420mm	50mm
		10035C-C	35C CALIBRATED @ ASTM	specified test points of 100, 120, 140, 160, 170°C			
35F		10035F	Aniline Point	194 to 338°F	0.5°	420mm	50mm
		10035F-C	35F CALIBRATED @ ASTM	specified test points of 212, 250, 285, 320, 338°F			
36C		10036C	Titer Test	-2 to 68°C	0.2°	405mm	45mm
		10036C-C	36C CALIBRATED @ ASTM	specified test points of 0, 15, 30, 45, 65°C			
37C	77C	10037C	Solvents Distillation	-2 to 52°C	0.2°	395mm	100mm
		10037C-C	37C CALIBRATED @ ASTM	specified test points of 0, 15, 30, 50°C			
38C	78C	10038C	Solvents Distillation	24 to 78°C	0.2°	395mm	100mm
		10038C-C	38C CALIBRATED @ ASTM	specified test points of 25, 40, 55, 75°C			
39C	79C	10039C	Solvents Distillation	48 to 102°C	0.2°	395mm	100mm
		10039C-C	39C CALIBRATED @ ASTM	specified test points of 50, 65, 80, 100°C			
40C	80C	10040C	Solvents Distillation	72 to 126°C	0.2°	395mm	100mm
		10040C-C	40C CALIBRATED @ ASTM	specified test points of 75, 90, 105, 125°C			
41C	81C	10041C	Solvents Distillation	98 to 152°C	0.2°	395mm	100mm
		10041C-C	41C CALIBRATED @ ASTM	specified test points of 100, 115, 130, 150°C			
42C	82C	10042C	Solvents Distillation	95 to 255°C	0.5°	395mm	100mm
		10042C-C	42C CALIBRATED @ ASTM	specified test points of 100, 150, 200, 250°C			
43C	65C	10043C	Kinematic Viscosity	-51.6 to -34°C	0.1°	417mm	total
		10043C-C	43C CALIBRATED @ ASTM	specified test points of -50, -45, -40, -35, 0°C			
43F	65F	10043F	Kinematic Viscosity	-61 to -29°F	0.2°	417mm	total
		10043F-C	43F CALIBRATED @ ASTM	specified test points of -60, -50, -40, -30, +32°F			
44C	29C	10044C	Kin Vis @ 20C	18.5 to 21.5°C	0.05°	305mm	total
		10044C-C	44C CALIBRATED @ ASTM	specified test points of 0, 20, 21°C			
44F	29F	10044F	Kin Vis @ 68F	66.5 to 71.5°F	0.1°	305mm	total
		10044F-C	44F CALIBRATED @ ASTM	specified test points of 32, 68, 70°F			
45C	30C	10045C	Kin Vis @ 25C	23.6 to 26.4°C	0.05°	305mm	total
		10045C-C	45C CALIBRATED @ ASTM	specified test points of 0, 25, 26°C			
45F	30F	10045F	Kin Vis @ 77F	74.5 to 79.5°F	0.1°	305mm	total
		10045F-C	45F CALIBRATED @ ASTM	specified test points of 32, 77, 79°F			
46C	66C	10046C	Kin Vis @ 50C	48.6 to 51.4°C	0.05°	305mm	total
		10046C-C	46C CALIBRATED @ ASTM	specified test points of 0, 50, 51°C			
46F	66F	10046F	Kin Vis @ 122F	119.5 to 124.5°F	0.1°	305mm	total
		10046F-C	46F CALIBRATED @ ASTM	specified test points of 32, 122, 124°F			
47C	35C	10047C	Kin Vis @ 60C	58.6 to 61.4°C	0.05°	305mm	total
		10047C-C	47C CALIBRATED @ ASTM	specified test points of 0, 60, 61°C			
47F	35F	10047F	Kin Vis @ 140F	137.5 to 142.5°F	0.1°	305mm	total
		10047F-C	47F CALIBRATED @ ASTM	specified test points of 32, 140, 142°F			
48C	90C	10048C	Kin Vis @ 82.2C	80.6 to 83.4°C	0.05°	305mm	total
		10048C-C	48C CALIBRATED @ ASTM	specified test points of 0, 82.2, 83°C			
48F	90F	10048F	Kin Vis @ 180F	177.5 to 182.5°F	0.1°	305mm	total
		10048F-C	48F CALIBRATED @ ASTM	specified test points of 32, 180, 182°F			
49C		10049C	Stormer Viscosity	20 to 70°C	0.2°	305mm	65mm
		10049C-C	49C CALIBRATED @ ASTM	specified test points of 20, 35, 50, 70°C			



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ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
50F		10050F	Gas Calorimeter inlet	54 to 101°F	0.1°	468mm	total
		10050F-C	50F CALIBRATED @ ASTM	specified test points of 55, 60, 65, 70, 75, 80, 85, 90, 95, 100°F			
51F		10051F	Gas Calorimeter outlet	69 to 116°F	0.1°	468mm	total
		10051F-C	51F CALIBRATED @ ASTM	specified test points of 70, 75, 80, 85, 90, 95, 100, 105, 110, 115°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
52C		10052C	Butad. Boiling point	-10 to 5°C	0.1°	162mm	total
		10052C-C	52C CALIBRATED @ ASTM	specified test points of -10, 0, 5°C			
53C		10053C	Benzene Freezing Pt	-0.6 to 10.4°C	0.1°	189mm	total
		10053C-C	53C CALIBRATED @ ASTM	specified test points of 0, 5, 10°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
54C	18C	10054C	Congealing Point	20 to 100.6°C	0.2°	310mm	total
		10054C-C	54C CALIBRATED @ ASTM	specified test points of 20, 50, 75, 100°C			
54F	18F	10054F	Congealing Point	68 to 213°F	0.5°	310mm	total
		10054F-C	54F CALIBRATED @ ASTM	specified test points of 70, 120, 170, 210°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
56C		10056C	Bomb Calorimeter	19 to 35°C	0.02°	585mm	total
		10056C-C	56C CALIBRATED @ ASTM	specified test points of 19, 21, 23, 25, 27, 29, 31, 33, 35°C			
56F		10056F	Bomb Calorimeter	66 to 95°F	0.05°	585mm	total
		10056F-C	56F CALIBRATED @ ASTM	specified test points of 66, 70, 74, 78, 82, 88, 92, 95°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
57C		10057C	Flash Tag Closed Low	-20 to 50°C	0.5°	290mm	57mm
		10057C-C	57C CALIBRATED @ ASTM	specified test points of -20, 0, 25, 50°C			
57F		10057F	Flash Tag Closed Low	-4 to 122°F	1°	290mm	57mm
		10057F-C	57F CALIBRATED @ ASTM	specified test points of -3, 32, 77, 122°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
58C		10058C	Tank, Refill, Low	-34 to 49°C	0.5°	300mm	total
		10058C-C	58C CALIBRATED @ ASTM	specified test points of -30, 0, 25, 45°C			
58F		10058F	Tank, Refill, Low	-30 to 120°F	1°	300mm	total
		10058F-C	58F CALIBRATED @ ASTM	specified test points of -20, 32, 80, 120°F			
		Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10058C-S	Tank, Refill, Low	-34 to 49°C	0.5°	300mm	total
Non-Mercury		10058C-S-C	Replica 58C CALIBRATED @ ASTM	specified test points of -30, 0, 25, 45°C			
Non-Mercury		10058F-S	Tank, Refill, Low	-30 to 120°F	1°	300mm	total
Non-Mercury		10058F-S-C	Replica 58F CALIBRATED @ ASTM	specified test points of -20, 32, 80, 120°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
59C		10059C	Tank, Refill, Medium	-18 to 82°C	0.5°	300mm	total
		10059C-C	59C CALIBRATED @ ASTM	specified test points of 0, 25, 55, 80°C			
59F		10059F	Tank, Refill, Medium	0 to 180°F	1°	300mm	total
		10059F-C	59F CALIBRATED @ ASTM	specified test points of 32, 80, 130, 180°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10059C-S	Tank, Refill, Medium	-18 to 82°C	0.5°	300mm	total
Non-Mercury		10059C-S-C	S59C CALIBRATED @ ASTM	specified test points of 0, 25, 55, 80°C			
Non-Mercury		10059F-S	Tank, Refill, Medium	0 to 180°F	1°	300mm	total
Non-Mercury		10059F-S-C	S59F CALIBRATED @ ASTM	specified test points of 32, 80, 130, 180°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
60C		10060C	Tank, Refill, High	77 to 260°C	1°	300mm	total
		10060C-C	60C CALIBRATED @ ASTM	specified test points of 100, 175, 255°C			
60F		10060F	Tank, Refill, High	170 to 500°F	2°	300mm	total
		10060F-C	60F CALIBRATED @ ASTM	specified test points of 212, 350, 490°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
61C	63C	10061C	Petrolatum Melt Pt	32 to 127°C	0.2°	380mm	79mm
		10061C-C	61C CALIBRATED @ ASTM	specified test points of 40, 60, 80, 100, 120°C			
61F		10061F	Petrolatum Melt Pt	90 to 260°F	0.5°	380mm	79mm
		10061F-C	61F CALIBRATED @ ASTM	specified test points of 100, 150, 200, 250°F			



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ASTM LABORATORY REFERENCE STANDARD THERMOMETER SET OF 9 THERMOMETERS, CELSIUS OR FAHRENHEIT, EACH WITH CERTIFICATE, NIST TRACEABLE

SET # 6270C-C

Complete set of ASTM 62C through 70C, each with NIST Traceable certificate at 5 ASTM specified test points, with velvet lined case. Complete coverage of range from -38 to 405°C.

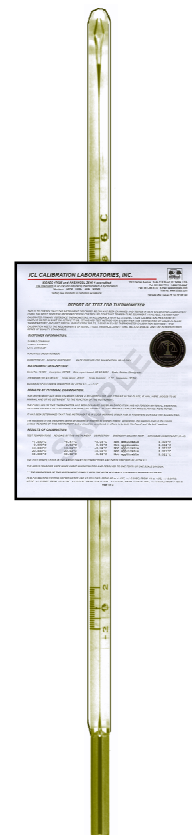
SET # 6270F-C

Complete set of ASTM 62F through 70F, each with NIST Traceable certificate at 5 ASTM specified test points, with velvet lined case. Complete coverage of range from -36 to 760°F.



**THERMOMETERS IN THESE SETS ARE ALSO AVAILABLE INDIVIDUALLY.
THEY ARE DESCRIBED IN DETAIL ON THE NEXT PAGE**

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
62C		10062C	Reference Standard	-38 to 2°C	0.1°	379mm	total
		10062C-C	62C CALIBRATED @ ASTM	specified test points of -37, -30, -20, -10, 0°C			
62F		10062F	Reference Standard	-36 to 35°F	0.2°	379mm	total
		10062F-C	62F CALIBRATED @ ASTM	specified test points of -35, -15, 0, 15, 32°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
63C		10063C	Reference Standard	-8 to 32°C	0.1°	379mm	total
		10063C-C	63C CALIBRATED @ ASTM	specified test points of -7, 0, 10, 20, 30°C			
63F		10063F	Reference Standard	18 to 89°F	0.2°	379mm	total
		10063F-C	63F CALIBRATED @ ASTM	specified test points of 20, 32, 50, 70, 88°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
64C		10064C	Reference Standard	25 to 55°C	0.1°	379mm	total
		10064C-C	64C CALIBRATED @ ASTM	specified test points of 0, 25, 35, 45, 55°C			
64F		10064F	Reference Standard	77 to 131°F	0.2°	379mm	total
		10064F-C	64F CALIBRATED @ ASTM	specified test points of 32, 80, 95, 115, 130°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
65C		10065C	Reference Standard	50 to 80°C	0.1°	379mm	total
		10065C-C	65C CALIBRATED @ ASTM	specified test points of 0, 50, 60, 70, 80°C			
65F		10065F	Reference Standard	122 to 176°F	0.2°	379mm	total
		10065F-C	65F CALIBRATED @ ASTM	specified test points of 32, 125, 145, 160, 175°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
66C		10066C	Reference Standard	75 to 105°C	0.1°	379mm	total
		10066C-C	66C CALIBRATED @ ASTM	specified test points of 0, 75, 85, 95, 105°C			
66F		10066F	Reference Standard	167 to 221°F	0.2°	379mm	total
		10066F-C	66F CALIBRATED @ ASTM	specified test points of 32, 168, 185, 200, 220°F			



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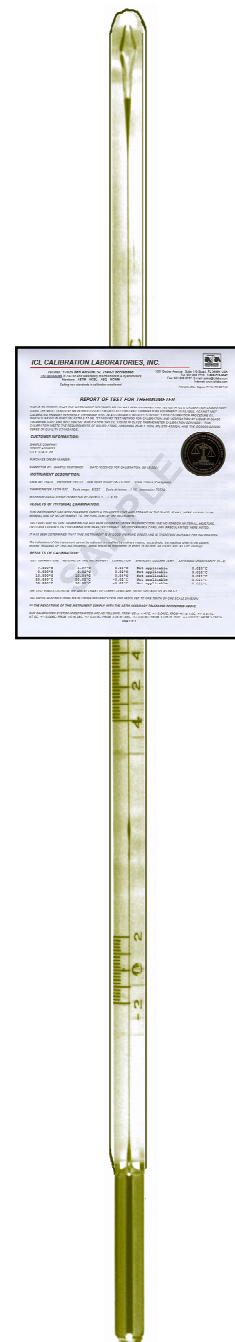
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ASTM THERMOMETERS

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
67C		10067C	Reference Standard	95 to 155°C	0.2°	379mm	total
		10067C-C	67C CALIBRATED @ ASTM	specified test points	of 0, 100, 110, 130, 150°C		
67F		10067F	Reference Standard	203 to 311°F	0.5°	379mm	total
		10067F-C	67F CALIBRATED @ ASTM	specified test points	of 32, 205, 240, 275, 310°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
68C		10068C	Reference Standard	145 to 205°C	0.2°	379mm	total
		10068C-C	68C CALIBRATED @ ASTM	specified test points	of 0, 150, 170, 190, 205°C		
68F		10068F	Reference Standard	293 to 401°F	0.5°	379mm	total
		10068F-C	68F CALIBRATED @ ASTM	specified test points	of 32, 300, 340, 370, 400°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
69C		10069C	Reference Standard	195 to 305°C	0.5°	379mm	total
		10069C-C	69C CALIBRATED @ ASTM	specified test points	of 0, 200, 235, 270, 305°C		
69F		10069F	Reference Standard	383 to 581°F	1.0°	379mm	total
		10069F-C	69F CALIBRATED @ ASTM	specified test points	of 32, 400, 460, 520, 580°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
70C		10070C	Reference Standard	295 to 405°C	0.5°	379mm	total
		10070C-C	70C CALIBRATED @ ASTM	specified test points	of 0, 300, 335, 370, 400°C		
70F		10070F	Reference Standard	563 to 761°F	1.0°	379mm	total
		10070F-C	70F CALIBRATED @ ASTM	specified test points	of 32, 570, 640, 700, 760°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
71C	72C	10071C	Oil in Wax	-37 to 21°C	0.5°	355mm	76mm
		10071C-C	71C CALIBRATED @ ASTM	specified test points	of -35, -18, 0, 20°C		
71F	72F	10071F	Oil in Wax	-35 to 70°F	1°	355mm	76mm
		10071F-C	71F CALIBRATED @ ASTM	specified test points	of -30, 0, 32, 70°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
72C	67C	10072C	Kin Vis @ -17.8C	-19.4 to -16.6°C	0.05°	305mm	total
		10072C-C	72C CALIBRATED @ ASTM	specified test points	of -19, -17.8, 0°C		
72F	67F	10072F	Kin Vis @ 0F	-2.5 to +2.5°F	0.1°	305mm	total
		10072F-C	72F CALIBRATED @ ASTM	specified test points	of -2, 0, 32°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
73C	68C	10073C	Kin Vis @ -40C	-41.4 to -38.6°C	0.05°	305mm	total
		10073C-C	73C CALIBRATED @ ASTM	specified test points	of -41, -40, 0°C		
73F	68F	10073F	Kin Vis @ -40F	-42.5 to -37.5°F	0.1°	305mm	total
		10073F-C	73F CALIBRATED @ ASTM	specified test points	of -42, -40, 32°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
74C	69C	10074C	Kin Vis @ -53.9C	-55.4 to -52.6°C	0.05°	305mm	total
		10074C-C	74C CALIBRATED @ ASTM	specified test points	of -55, -53.9, 0°C		
74F	69F	10074F	Kin Vis @ -65F	-67.5 to -62.5°F	0.1°	305mm	total
		10074F-C	74F CALIBRATED @ ASTM	specified test points	of -67, -65, 32°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
75F		10075F	Coolant Freezing Pt	-35 to 35°F	0.5°	408mm	100mm
		10075F-C	75F CALIBRATED @ ASTM	specified test points	of -35, 0, 32°F		
76F		10076F	Coolant Freezing Pt	-65 to +5°F	0.5°	408mm	100mm
		10076F-C	76F CALIBRATED @ ASTM	specified test points	of -65, -30, 0°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
77F		10077F	Viscosity Saybolt	245 to 265°F	0.5°	275mm	total
		10077F-C	77F CALIBRATED @ ASTM	specified test points	of 250, 260°F		
78F		10078F	Viscosity Saybolt	295 to 315°F	0.5°	275mm	total
		10078F-C	78F CALIBRATED @ ASTM	specified test points	of 300, 310°F		
79F		10079F	Viscosity Saybolt	345 to 365°F	0.5°	275mm	total
		10079F-C	79F CALIBRATED @ ASTM	specified test points	of 350, 360°F		
80F		10080F	Viscosity Saybolt	395 to 415°F	0.5°	275mm	total
		10080F-C	80F CALIBRATED @ ASTM	specified test points	of 400, 410°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
81F		10081F	Viscosity Saybolt	445 to 465°F	0.5°	275mm	total
		10081F-C	81F CALIBRATED @ ASTM	specified test points	of 450, 460°F		
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
82C		10082C	Fuel Rating, Engine	-15 to 105°C	1°	165mm	30mm
		10082C-C	82C CALIBRATED @ ASTM	specified test points	of 0, 50, 100°C		
82F		10082F	Fuel Rating, Engine	0 to 220°F	2°	165mm	30mm
		10082F-C	82F CALIBRATED @ ASTM	specified test points	of 32, 100, 200°F		



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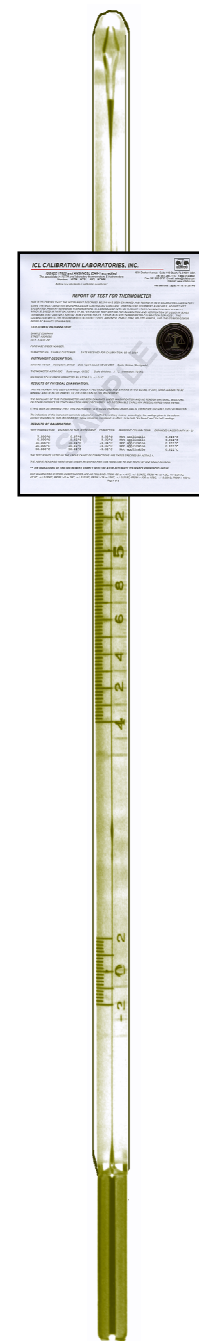
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ASTM THERMOMETERS

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
83C		10083C	Fuel Rating, Air	15 to 70°C	1°	174mm	40mm
		10083C-C	83C CALIBRATED @ ASTM	specified test points of 25, 70°C			
83F		10083F	Fuel Rating, Air	60 to 160°F	1°	174mm	40mm
		10083F-C	83F CALIBRATED @ ASTM	specified test points of 85, 135°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
84C		10084C	Fuel Rating, Orifice	25 to 80°C	1°	387mm	249mm
		10084C-C	84C CALIBRATED @ ASTM	specified test points of 30, 80°C			
84F		10084F	Fuel Rating, Orifice	75 to 175°F	1°	387mm	249mm
		10084F-C	84F CALIBRATED @ ASTM	specified test points of 100, 150°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
85C		10085C	Fuel Rating, Surge	40 to 150°C	1°	314mm	181mm
		10086C-C	85C CALIBRATED @ ASTM	specified test points of 50, 150°C			
85F		10085F	Fuel Rating, Surge	100 to 300°F	2°	314mm	181mm
		10085F-C	85F CALIBRATED @ ASTM	specified test points of 150, 250°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
86C		10086C	Fuel Rating, Mix	95 to 175°C	1°	170mm	35mm
		10086C-C	86C CALIBRATED @ ASTM	specified test points of 100, 175°C			
86F		10086F	Fuel Rating, Mix	200 to 350°F	2°	170mm	35mm
		10086F-C	86F CALIBRATED @ ASTM	specified test points of 225, 325°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
87C		10087C	Fuel Rating, Coolant	150 to 205°C	1°	175mm	40mm
		10087C-C	87C CALIBRATED @ ASTM	specified test points of 160, 200°C			
87F		10087F	Fuel Rating, Coolant	300 to 400°F	1°	175mm	40mm
		10087F-C	87F CALIBRATED @ ASTM	specified test points of 300, 400°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
88C		10088C	Vegetable Oil Flash	10 to 200°C	1°	287mm	57mm
		10088C-C	88C CALIBRATED @ ASTM	specified test points of 40, 100, 150, 200°C			
88F		10088F	Vegetable Oil Flash	50 to 392°F	2°	287mm	57mm
		10088F-C	88F CALIBRATED @ ASTM	specified test points of 110, 212, 300, 392°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
89C		10089C	Solidification Point	-20 to +10°C	0.1°	370mm	76mm
		10089C-C	89C CALIBRATED @ ASTM	specified test points of -20, -10, 0, 10°C			
90C		10090C	Solidification Point	0 to 30°C	0.1°	370mm	76mm
		10090C-C	90C CALIBRATED @ ASTM	specified test points of 0, 10, 20, 30°C			
91C		10091C	Solidification Point	20 to 50°C	0.1°	370mm	76mm
		10091C-C	91C CALIBRATED @ ASTM	specified test points of 20, 30, 40, 50°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
92C		10092C	Solidification Point	40 to 70°C	0.1°	370mm	76mm
		10092C-C	92C CALIBRATED @ ASTM	specified test points of 40, 50, 60, 70°C			
93C		10093C	Solidification Point	60 to 90°C	0.1°	370mm	76mm
		10093C-C	93C CALIBRATED @ ASTM	specified test points of 60, 70, 80, 90°C			
94C		10094C	Solidification Point	80 to 110°C	0.1°	370mm	76mm
		10094C-C	94C CALIBRATED @ ASTM	specified test points of 80, 90, 100, 110°C			
95C		10095C	Solidification Point	100 to 130°C	0.1°	370mm	76mm
		10095C-C	95C CALIBRATED @ ASTM	specified test points of 100, 110, 120, 130°C			
96C		10096C	Solidification Point	120 to 150°C	0.1°	370mm	76mm
		10096C-C	96C CALIBRATED @ ASTM	specified test points of 120, 130, 140, 150°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
97C		10097C	Tank, Refill	-18 to 49°C	0.5°	300mm	total
		10097C-C	97C CALIBRATED @ ASTM	specified test points of -15, 0, 20, 45°C			
97F		10097F	Tank, Refill	0 to 120°F	1°	300mm	total
		10097F-C	97F CALIBRATED @ ASTM	specified test points of 0, 32, 70, 110°F			
98C		10098C	Tank, Refill	16 to 82°C	0.5°	300mm	total
		10098C-C	98C CALIBRATED @ ASTM	specified test points of 20, 40, 60, 80°C			
98F		10098F	Tank, Refill	60 to 180°F	1°	300mm	total
		10098F-C	98F CALIBRATED @ ASTM	specified test points of 60, 100, 140, 180°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
99C		10099C	Weathering Test	-50 to +5°C	0.2°	305mm	35mm
		10099C-C	99C CALIBRATED @ ASTM	specified test points of -46, -32, -18, 0°C			
99F		10099F	Weathering Test	-58 to 41°F	0.5°	305mm	35mm
		10099F-C	99F CALIBRATED @ ASTM	specified test points of -50, -25, 0, 32°F			
100C		10100C	Solidification Point	145 to 205°C	0.2°	370mm	76mm
		10100C-C	100C CALIBRATED @ ASTM	specified test points of 145, 165, 185, 205°C			
101C		10101C	Solidification Point	195 to 305°C	0.5°	370mm	76mm
		10101C-C	101C CALIBRATED @ ASTM	specified test points of 200, 250, 300°C			



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ASTM THERMOMETERS

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
102C	83C	10102C	Solvents Distillation	123 to 177°C	0.2°	395mm	100mm
		10102C-C	102C CALIBRATED @ ASTM	specified test points of 125, 140, 155, 175°C			
103C	84C	10103C	Solvents Distillation	148 to 202°C	0.2°	395mm	100mm
		10103C-C	103C CALIBRATED @ ASTM	specified test points of 150, 165, 180, 200°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
104C	85C	10104C	Solvents Distillation	173 to 227°C	0.2°	395mm	100mm
		10104C-C	104C CALIBRATED @ ASTM	specified test points of 175, 190, 205, 225°C			
105C	86C	10105C	Solvents Distillation	198 to 252°C	0.2°	395mm	100mm
		10105C-C	105C CALIBRATED @ ASTM	specified test points of 200, 215, 230, 250°C			
106C	87C	10106C	Solvents Distillation	223 to 277°C	0.2°	395mm	100mm
		10106C-C	106C CALIBRATED @ ASTM	specified test points of 225, 240, 255, 275°C			
107C	88C	10107C	Solvents Distillation	248 to 302°C	0.2°	395mm	100mm
		10107C-C	107C CALIBRATED @ ASTM	specified test points of 250, 265, 280, 300°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
108F		10108F	Viscosity Saybolt	270 to 290°F	0.5°	275mm	total
		10108F-C	108F CALIBRATED @ ASTM	specified test points of 275, 285°F			
109F		10109F	Viscosity Saybolt	320 to 340°F	0.5°	275mm	total
		10109F-C	109F CALIBRATED @ ASTM	specified test points of 325, 335°F			
110C	93C	10110C	Kin Vis @ 135C	133.6 to 136.4°C	0.05°	305mm	total
		10110C-C	110C CALIBRATED @ ASTM	specified test points of 0, 135, 136°C			
110F		10110F	Kin Vis @ 275F	272.5 to 277.5°F	0.1°	305mm	total
		10110F-C	110F CALIBRATED @ ASTM	specified test points of 32, 275, 277°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
111C		10111C	Tar Acid Distillation	170 to 250°C	0.2°	395mm	100mm
		10111C-C	111C CALIBRATED @ ASTM	specified test points of 170, 200, 250°C			
112C		10112C	Solidification Benzene	4 to 6°C	0.02°	215mm	total
		10112C-C	112C CALIBRATED @ ASTM	specified test points of 0, 4, 5, 6°C			
113C	89C	10113C	Bit. Mat. Softening. Pt.	-1 to 175°C	0.5°	406mm	total
		10113C-C	113C CALIBRATED @ ASTM	specified test points of 0, 50, 100, 150, 175°C			
113F	89F	10113F	Bit. Mat. Softening. Pt.	30 to 350°F	1°	406mm	total
		10113F-C	113F CALIBRATED @ ASTM	specified test points of 32, 122, 212, 302, 347°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
114C	14C	10114C	Aviation Fuel Frz. Pt.	-80 to 20°C	0.5°	300mm	total
		10114C-C	114C CALIBRATED @ ASTM	specified test points of -75, -60, -40, 0°C			
114F		10114F	Aviation Fuel Frz. Pt.	-112 to 70°F	1.0°	300mm	total
		10114F-C	114F CALIBRATED @ ASTM	specified test points of -103, -76, -40, 32°F			
115C		10115C	Beckman Differential	0 to 6°C	0.01°	610mm	stem
		10115C-C	115C CALIBRATED @ 0, 1, 2, 3, 4, 5 & 6° on its scale				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
116C		10116C	Bomb Calorimeter	18.9 to 25.1°C	0.01°	609mm	total
		10116C-C	116C CALIBRATED @ ASTM	specified test points of 19, 20, 21, 22, 23, 24, 25°C			
117C		10117C	Bomb Calorimeter	23.9 to 30.1°C	0.01°	609mm	total
		10117C-C	117C CALIBRATED @ ASTM	specified test points of 24, 25, 26, 27, 28, 29, 30°C			
118C		10118C	Kin Vis @ 30C	28.6 to 31.4°C	0.05°	305mm	total
		10118C-C	118C CALIBRATED @ ASTM	specified test points of 0, 30, 31°C			
118F		10118F	Kin Vis @ 86F	83.5 to 88.5°F	0.1°	305mm	total
		10118F-C	118F CALIBRATED @ ASTM	specified test points of 32, 86, 88°F			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
119C		10119C	Coolant Frz. Pt.	-38.3 to -30°C	0.1°	420mm	100mm
		10119C-C	119C CALIBRATED @ ASTM	specified test points of -38, -30, 0°C			
119F		10119F	Coolant Frz. Pt.	-37 to -22°F	0.2°	420mm	100mm
		10119F-C	119F CALIBRATED @ ASTM	specified test points of -36, -22, +32°F			
120C	92C	10120C	Kin Vis @ 40C	38.6 to 41.4°C	0.05°	305mm	total
		10120C-C	120C CALIBRATED @ ASTM	specified test points of 0, 40, 41°C			
121C	32C	10121C	Kin Vis @ 100C	98.6 to 101.4°C	0.05°	305mm	total
		10121C-C	121C CALIBRATED @ ASTM	specified test points of 0, 100, 101°C			
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
122C	94C	10122C	Brookfield Viscosity	-45 to -35°C	0.1°	300mm	total
		10122C-C	122C CALIBRATED @ ASTM	specified test points of -45, -40, -35°C			
123C	95C	10123C	Brookfield Viscosity	-35 to -25°C	0.1°	300mm	total
		10123C-C	123C CALIBRATED @ ASTM	specified test points of -35, -30, -25°C			
124C	96C	10124C	Brookfield Viscosity	-25 to -15°C	0.1°	300mm	total
		10124C-C	124C CALIBRATED @ ASTM	specified test points of -25, -20, -15°C			
125C	97C	10125C	Brookfield Viscosity	-15 to -5°C	0.1	300mm	total
		10125C-C	125C CALIBRATED @ ASTM	specified test points of -15, -10, -5°C			



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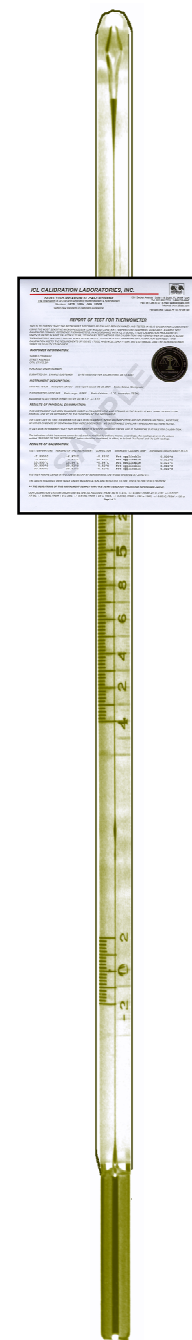
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ASTM THERMOMETERS

ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
126C	71C	10126C	Kin Vis @ -26.1C	-27.4 to -24.6°C	0.05°	305mm	total
		10126C-C	126C CALIBRATED @ ASTM specified test points of -27, -26.1, 0°C				
126F	71F	10126F	Kin Vis @ -15F	-17.5 to -12.5°F	0.1°	305mm	total
		10126F-C	126F CALIBRATED @ ASTM specified test points of -17, -15, +32°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
127C	99C	10127C	Kin Vis @ -20C	-21.4 to -18.6°C	0.05°	305mm	total
		10127C-C	127C CALIBRATED @ ASTM specified test points of -21, -20, 0°C				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
128C	33C	10128C	Kin Vis @ 0C	-1.4 to +1.4°C	0.05°	305mm	total
		10128C-C	128C CALIBRATED @ ASTM specified test points of 0, 1°C				
128F	33F	10128F	Kin Vis @ 32F	29.5 to 34.5°F	0.1°	305mm	total
		10128F-C	128F CALIBRATED @ ASTM specified test points of 32, 34°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
129C	36C	10129C	Kin Vis @ 93.3C	91.6 to 94.4°C	0.05°	305mm	total
		10129C-C	129C CALIBRATED @ ASTM specified test points of 0, 93.3, 94°C				
129F	36F	10129F	Kin Vis @ 200F	197.5 to 202.5°F	0.1°	305mm	total
		10129F-C	129F CALIBRATED @ ASTM specified test points of 32, 200, 202°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
130C		10130C	Tank Gauging, Refill	-7 to 105°C	0.5°	305mm	total
		10130C-C	130C CALIBRATED @ ASTM specified test points of 0, 35, 70, 105°C				
130F		10130F	Tank Gauging, Refill	20 to 220°F	1°	305mm	total
		10130F-C	130F CALIBRATED @ ASTM specified test points of 32, 100, 160, 220°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
Non-Mercury		10130C-S	Tank Gauging, Refill	-7 to 105°C	0.5°	305mm	total
Non-Mercury		10130C-S-C	Replica 130C CALIBRATED @ ASTM specified test points of 0, 35, 70, 105°C				
Non-Mercury		10130F-S	Tank Gauging, Refill	20 to 220°F	1°	305mm	total
Non-Mercury		10130F-S-C	Replica 130F CALIBRATED @ ASTM specified test points of 32, 100, 160, 220°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
132C	102C	10132C	Kin Vis @ 150C	148.6 to 151.4°C	0.05°	305mm	total
		10132C-C	132C CALIBRATED @ ASTM specified test points of 0, 150, 151°C				
133C		10133C	Bending Beam Rheometer	-38 to +2°C	0.1°C	379mm	76mm
		10133C-C	133C CALIBRATED @ ASTM specified test points of -36, -30, -24, -18, -12, -6, 0°C				
134C	37C	10134C	Sludge	144 to +156°C	0.2°C	270mm	100mm
		10134C-C	134C CALIBRATED @ ASTM specified test points of 145, 150, 155°C				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
135C		10135C	Fuel Rating Air-High	38 to 93°C	1°	168mm	40mm
		10135C-C	135C CALIBRATED @ ASTM specified test points of				
135F		10135F	Fuel Rating Air-High	100 to 200°F	1°	168mm	40mm
		10135F-C	135F CALIBRATED @ ASTM specified test points of				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
136C		10136C	Aviation Fuel Density	-20 to 60°C	0.2°	285mm	total
		10136C-C	136C CALIBRATED @ ASTM specified test points of -20, -10, 0, 10, 20, 30, 40, 50, 60°C				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
136F		10136F	Aviation Fuel Density	-5 to 140°F	0.5°	285mm	total
		10136F-C	136F CALIBRATED @ ASTM specified test points of -5, 15, 32, 60, 85, 110, 135°F				
ASTM	IP	Cat No	Application	Range	Div	Length	Immersion
137C		10137C	Oxidation Cell Test	80 to 100°C	0.1	250mm	76mm
		10137C-C	137C CALIBRATED @ ASTM specified test points of 80, 90, 100°C				



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TANK GAUGING THERMOMETERS

All of the thermometers noted 'Tank Gauging, refill' in the preceding ASTM thermometer section are designed for use in a variety of cases for gauging temperature of liquids in storage or transport tanks. We have listed these units again below to offer them with the various cases available:

FAHRENHEIT RANGES

ASTM No.	Temperature Range	Cat No, refill	Cat No, complete with woodback	Cat No, complete with plastic case
58F	-30 to 120°F	10058F	10058F-WB	10058F-PC
97F	0 to 120°F	10097F	10097F-WB	10097F-PC
59F	0 to 180°F	10059F	10059F-WB	10059F-PC
98F	60 to 180°F	10098F	10098F-WB	10098F-PC
130F	20 to 220°F	10130F	10130F-WB	10130F-PC
60F	170 to 500°F	10060F	10060F-WB	N/A **

Spirit Filled – Non Mercury Fahrenheit Ranges

The thermometers listed below are built to ASTM specifications but do not bear the ASTM designation.

Temperature Range	Cat No, refill	Cat No, complete with woodback	Cat No, complete with plastic case
-30 to 120°F	10058F-S	10058F-WB	10058F-PC
0 to 180°F	10059F-S	10059F-WB	10059F-PC
20 to 220°F	10130F-S	10130F-WB	10130F-PC
0 to 300°F	200-519		

CELSIUS RANGES

ASTM No.	Temperature Range	Cat No, refill	Cat No, complete with woodback	Cat No, complete with plastic case
58C	-35 to 50°C	10058C	10058C-WB	10058C-PC
97C	-18 to 49°C	10097C	10097C-WB	10097C-PC
98C	16 to 82°C	10098C	10098C-WB	10098C-PC
59C	-18 to 82°C	10059C	10059C-WB	10059C-PC
130C	-7 to 105°C	10130C	10130C-WB	10130C-PC
60C	77 to 260°C	10060C	10060C-WB	N/A **

Spirit Filled – Non Mercury Celsius Ranges

The thermometers listed below are built to ASTM specifications but do not bear the ASTM designation.

Temperature Range	Cat No, refill	Cat No, complete with woodback	Cat No, complete with plastic case
-35 to 50°C	10058C-S	10058C-WB	10058C-PC
-18 to 82°C	10059C-S	10059C-WB	10059C-PC
-50 to 50°C	200-406 Hook		

Cupcases

Catalog No.	Description
WB	Woodback Cupcase with 100ml brass cup
WB-FL	Woodback Cupcase with 100ml brass cup & flapper lid
PC	Plastic Cupcase with 100 ml cup
1259TM	TankMaster Plastic Cupcase

** The plastic case is not recommended for applications which exceed 260° F (approximately 125°C)



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NIST TRACEABLE CALIBRATED THERMOMETERS FOR FIELD VERIFICATION CHECKS OF THERMOPROBES

FOR FAHRENHEIT THERMOPROBES

Catalog No.	Temp Range	Divs	Immersion	Test Points
210-630-TP-C	+30 to 214°F	0.2°	3 IN (76mm)	32, 110, 195, 212°F
210-626-TP-C	+30 to 124°F	0.1°	3 IN (76mm)	32, 70, 120°F
Non Mercury Thermometer				
210-654-TP-C	+30 to 124°F	0.2°	3 IN (76mm)	32, 70, 120°F

CALIBRATED @ 32, 110, 195 & 212F

FOR CELSIUS THERMOPROBES

Catalog No.	Temp Range	Divs.	Immersion
210-610-TP-C	-1 to 101°C	0.1°	76mm

CALIBRATED @ 0, 43, 90, and 100°C



Meets API Chapter 7 requirements

The American Petroleum Institute's (API) publication 'Manual of Petroleum Measurement Standards' (Chapter 7, Section 3) 'Static Temperature Determination Using Portable Electronic Thermometers' (First Edition, July 1985) offers specific recommendations for recalibration and verification of your electronic digital thermometer. The following section, in brown type, has been reprinted, with permission, courtesy of the American Petroleum Institute, as a customer service.

The newest version of Chapter 7, dated June 2001 has the same requirements.

To purchase this or other API standards, please contact the American Petroleum Institute's Publications Department at 202-682-8000

7.8.2 Initial Calibration

Before initial use, and at least once a year thereafter, each portable electronic thermometer shall be re-standardized in a laboratory or other qualified calibration facility. The thermometer shall be re-standardized by comparing it at three or more temperatures with either a National Bureau of Standards (NBS) (ICL note: NBS is now NIST) certified thermometer or an equivalent thermometer with accuracy traceable to the NBS in accordance with the manufacturer's instructions. These standardization checks will ensure that accuracy is maintained within the limits given in Table 3.

8.2.1 Field verification

Before each use, or once per day (whichever is less frequent), portable electronic thermometers should be spot checked by comparing the ambient reading against an ASTM glass stem thermometer in liquid. If the readings differ by more than 0.5 degree F (or 0.25 degree C), the portable electronic thermometer should be re-standardized before it is used for custody transfer.

8.2.2 MONTHLY VERIFICATION AND INSPECTION

On a monthly schedule, the portable electronic thermometer should be checked at two or more temperatures near the ends of its range against an NIST certified thermometer or an equivalent thermometer with accuracy traceable to the NIST. Make this check by placing the two thermometers side-by-side in a circulating bath and leaving them undisturbed for at least 10 minutes before making comparative readings. Alternately, the ice point and boiling point of fresh water may be used for accuracy check. The boiling point of fresh water must be corrected for altitude. If the thermometer readings differ by more than the tolerances listed in Table 1, the thermometer should be re-standardized (see 7.8.2). In addition, the following physical checks should be made:

1. The junction between the cable and the probe should be checked for mechanical damage.
2. The cable insulation should be checked for cuts, breaks, or abrasion.

TABLE 3 - Portable Electronic Gauging Thermometers

Graduation	Range	Required accuracy
0.1 F	0-200°F	+/- 0.2°F
	> 200°F	+/- 0.5°F
0.1 C	0-100°C	+/- 0.1°C
	> 100°C	+/- 0.3°C

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CERT. 526.01 CALIBRATION

NIST TRACEABLE THERMOMETERS FOR: FREEZERS - REFRIGERATORS - INCUBATORS - OVENS



- Specifically designed to comply with **CLIA and EPA specifications**
- Precision MERCURY IN GLASS & NON MERCURY** thermometers
- Graduated in fractional degrees** (except 210-008 and 210-012)
- TEFLON® ENCAPSULATED** for safety, breakage resistance and to contain the mercury and glass in the event of a breakage
- NIST Traceable VERIFIED** (see Certificate of Accuracy below)
- Mounted in polypropylene bottle, filled with mineral oil (pharmaceutical grade) or sand, **to prevent changes of the reading** when chamber is opened to read the thermometer. *Teflon® is a registered trademark of e.i. duPont*



ordering information:

MERCURY FILLED thermometers

Cat No	Temp Range	Application	Div	Verified at:
210-000	-30 to +1°C	Freezer	0.5°	-20, 0°C
210-002	-5 to +20°C	Refrigerator	0.5°	0, 4°C
210-010	-0.6 to 10.4°C	Refrig., blood bank	0.1°C	0, 5, 10°C
210-003	18 to 50°C	Incubators	0.5°	20, 35, 50°C
210-008	-5 to 130°C	TSS ovens	1.0°	0, 80, 110°C
210-012	-5 to 205°C**	Ovens	1.0°	0, 100, 200°C

**Mounted in sand filled Teflon® PFA bottle to withstand these higher temperatures

NON MERCURY thermometers

Cat No	Temp Range	Application	Div	Verified at:
210-000-RL	-30 to +1°C	Freezer	0.5°	-20, 0°C
210-002-RL	-5 to +20°C	Refrigerator	0.5°	0, 4°C
210-003-RL	18 to 50°C	Incubators	0.5°	20, 35, 50°C
210-008-RL	-5 to 130°C	Ovens	1.0°	0, 80, 110°C

Digital Chamber thermometers

Cat No	Temp Range	Application	Div	Verified at:
210-090F	-58 to +158°F	Freezer	0.1°	0 & 50°C
	(-50 to 70 °C)			
210-090I	-58 to +158°F	Incubator	0.1°	0 & 50°C
	(-50 to 70 °C)			
210-090F	-58 to +158°F	Refrigerator	0.1°	0 & 50°C
	(-50 to 70 °C)			



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Fractional Degree Extreme Precision Laboratory Thermometers

ICL's precision laboratory thermometers are supplied in yellow back glass with permanent pigmentation of graduations. All of these instruments are aged and annealed for extended accurate service life, and are suitable for certification.

Fractional Degree Thermometers - *MERCURY FILLED*

Cat No	Type	SAMA No	Range	Div	Length	Immersion
200-009	Extreme Precision	-----	-20 to 105°C	0.5°	305mm	76mm
210-600	Extreme Precision	CT40	-1 to 51°C	0.1°	460mm	Total
210-602	Extreme Precision	CP40	-1 to 51°C	0.1°	460mm	76mm
210-604	Extreme Precision	-----	-1 to 101°C	0.2°	460mm	Total
210-606	Extreme Precision	-----	-1 to 101°C	0.2°	460mm	76mm
210-608	Extreme Precision	CT45	-1 to 101°C	0.1°	610mm	Total
210-610	Extreme Precision	CP45	-1 to 101°C	0.1°	610mm	76mm
210-636	Extreme Precision	-----	-1 to 110°C	0.2°	460mm	76mm
310-120	Extreme Precision	-----	-1 to 151°C	0.2°	475mm	76mm
210-612	Extreme Precision	CT50	-1 to 201°C	0.2°	610mm	Total
210-614	Extreme Precision	CP50	-1 to 201°C	0.2°	610mm	76mm
210-620	Extreme Precision	FT40	+30 to 124°F	0.2°	457mm	Total
210-622	Extreme Precision	FP40	+30 to 124°F	0.2°	457mm	3"
210-624	Extreme Precision	-----	+30 to 124°F	0.1°	610mm	Total
210-626	Extreme Precision	-----	+30 to 124°F	0.1°	610mm	3"
210-628	Extreme Precision	FT45	+30 to 214°F	0.2°	610mm	Total
210-630	Extreme Precision	FP45	+30 to 214°F	0.2°	610mm	3"
210-632	Extreme Precision	FT50	+30 to 394°F	0.5°	610mm	Total
210-634	Extreme Precision	FP30	+30 to 394°F	0.5°	610mm	3"

Fractional Degree Thermometers - *NON MERCURY*

Cat No	Type	Range	Div	Length	Immersion
210-617	Extreme Precision	-1 to 51 °C	0.1°	460mm	Total
210-616	Extreme Precision	-1 to 51 °C	0.1°	460mm	76mm
210-621	Extreme Precision	-10 to 150 °C	0.5°	305mm	Total
210-623	Extreme Precision	-10 to 150 °C	0.5°	305mm	76mm
210-625	Extreme Precision	-1 to 101 °C	0.2°	460mm	Total
210-627	Extreme Precision	-1 to 101 °C	0.2°	460mm	76mm
210-652	Extreme Precision	30 to 124 °F	0.2°	460mm	Total
210-654	Extreme Precision	30 to 124 °F	0.2°	460mm	76mm
210-648	Extreme Precision	0 to 230 °F	0.5°	380mm	Total
210-650	Extreme Precision	0 to 230 °F	0.5°	380mm	76mm
10017F-S	Extreme Precision	66 to 80 °F	0.2°	275mm	Total
10020F-S	Extreme Precision	134 to 148 °F	0.2°	275mm	Total
200-005	Extreme Precision	-10 to 50 °C	0.5°	305mm	76mm



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SAMA *MERCURY FILLED* PRECISION LABORATORY

THERMOMETERS

Manufactured for general testing and laboratory procedures where an ASTM thermometer is not specified. Supplied with permanent pigmentation of graduations. Manufactured with greatest care for extended accuracy and long service life. All instruments of this series comply with the National Institute of Standards & Technology Monograph 150 and are eligible for certification.

PARTIAL IMMERSION (76MM IMM)

CELSIUS RANGES

Cat No	SAMA No.	Range	Div	Length
200-004	CP10	-35 to 50°C	1°	305mm
200-008	CP15	-20 to 110°C	1°	305mm
200-012	CP20	-20 to 150°C	1°	305mm
200-016	-----	-10 to 210°C	1°	380mm
200-020	CP25	-10 to 260°C	1°	406mm

TOTAL IMMERSION

CELSIUS RANGES

Cat No	SAMA No.	Range	Div	Length
200-002	CT10	-35 to 50°C	1°	305mm
200-006	CT15	-20 to 110°C	1°	305mm
200-010	CT20	-20 to 150°C	1°	305mm
200-014	-----	-10 to 210°C	1°	380mm
200-018	CT25	-10 to 260°C	1°	406mm

PARTIAL IMMERSION (76MM IMM)

FAHRENHEIT RANGES

Cat No	SAMA No.	Range	Div	Length
200-108	FP10	-30 to 120°F	1°	305mm
200-116	FP15	0 to 230°F	2°	305mm
200-120	-----	0 to 220°F	1°	405mm
200-128	-----	+30 to 300°F	1°	305mm
200-136	-----	+30 to 400°F	1°	380mm
200-140	FP25	+20 to 500°F	2°	405mm
200-146	FP30	+20 to 750°F	5°	405mm

TOTAL IMMERSION

FAHRENHEIT RANGES

Cat No	SAMA No.	Range	Div	Length
200-106	FT10	-30 to 120°F	1°	305mm
200-114	FT15	0 to 230°F	2°	305mm
200-118	-----	30 to 220°F	1°	305mm
200-126	-----	30 to 300°F	1°	305mm
200-138	FT25	20 to 500°F	2°	405mm
200-148	FT30	20 to 750°F	5°	405mm

NON MERCURY. PRECISION LABORATORY THERMOMETERS

For general purpose testing where the use of mercury thermometers is unsuitable. Manufactured to SAMA and NIST tolerances. Organic liquid dyed red for easy reading.

Celsius scale, 76mm immersion, 305mm lgth

Cat No	Range	Div
200-404	-100 to 50°C	1°
200-408	-50 to 50°C	1°
200-409	-35 to 50°C	1°
200-416	-20 to 110°C	1°
200-420	-20 to 150°C	1°

Celsius scale, total immersion, 305mm lgth

Cat No	Range	Div
200-402	-100 to 50°C	1°
200-406	-50 to 50°C	1°
200-407	-35 to 50°C	1°
200-414	-20 to 110°C	1°
200-418	-20 to 150°C	1°

Fahrenheit scale, 76mm immersion, 305mm lgth

Cat No	Range	Div
200-512	-30 to 120 ° F	1°
200-516	0 to 230°F	2°
200-518	0 to 300 °F	1°
200-526	0 to 220°F	1° 380mm Lght
200-536	30 to 400 °F	1° 380mm Lght

Fahrenheit scale, total immersion, 305mm lgth

Cat No	Range	Div
200-510	-30 to 120F	1°
200-514	0 to 230°F	2°
200-519	0 to 300 °F	1°
200-524	0 to 220°F	1° 380mm Lght

PROTECTIVE CASES FOR THERMOMETERS

Wood reinforced, leatherette covered cases with velvet lined interior, with 2 safety snaps on cover. A good way to protect your valuable certified thermometer when not in use.

Cat No	Capacity	Holds thermometer up to: (maximum length)
300-000	1 thermometer	12.5" (317mm)
300-002	1 thermometer	16.5" (420mm)
300-004	1 thermometer	18.5" (470mm)
300-006	1 thermometer	24.5" (620mm)
300-008	9 thermometers	16" (406mm)
300-014	5 thermometers	16" (406mm)



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NIST TRACEABLE CERTIFIED THERMOMETERS



*Fine quality, precision mercury-in-glass CERTIFIED general lab thermometers. For many laboratories, especially those **not** performing tests which specify the use of an ASTM thermometer, one of these thermometers may well suffice as the only certified thermometer needed.*

CELSIUS RANGES

Cat No	Temp range	Div	Immer.	Temperatures Certified	Lgth
200-009-C	-20 to 105°C	0.5°	76mm	-10, 0, 25, 37, 56, 100°C	375mm (15")
210-114	-20 to 110°C	1.0°	76mm	0, 37, 56, 100°C	305mm (12")
200-006-C	-20 to 110°C	1.0°	Total	0, 37, 56, 100°C	305mm (12")
210-602-C	-1 to 51°C	0.1°	76mm	0, 10, 20, 30, 37, 40, 50°C	457mm (18")
210-600-C	-1 to 51°C	0.1°	Total	0, 10, 20, 30, 37, 40, 50°C	457mm (18")
210-606-C	-1 to 101°C	0.2°	76mm	0, 20, 40, 60, 80, 100°C	457mm (18")
210-604-C	-1 to 101°C	0.2°	Total	0, 20, 40, 60, 80, 100°C	457mm (18")
210-610-C	-1 to 101°C	0.1°	76mm	0, 10, 20, 30, 37, 40, 50, 60, 70, 80, 90, 100°C	610mm (24")
210-608-C	-1 to 101°C	0.1°	Total	0, 10, 20, 30, 37, 40, 50, 60, 70, 80, 90, 100°C	610mm (24")
210-636-C	-1 to 110°C	0.2°	76mm	0, 4, 25, 37, 44.6, 56, 105°C	457mm (18")
310-119	-1 to 125°C	0.2°	76mm	0, 4, 25, 37, 44.5, 56, 105, 121°C	610mm (24")
310-120-C	-1 to 151°C	0.2°	76mm	0, 20, 37, 56, 80, 100, 121, 150°C	475mm (19")
210-614-C	-1 to 201°C	0.2°	76mm	0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200°C	610mm (24")
210-612-C	-1 to 201°C	0.2°	Total	0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200°C	610mm (24")
210-116-C	24 to 38°C	0.05°	95mm	SRM Standard Reference Materials Thermometer 0, 25, 30, 37°C	305mm (12")

FAHRENHEIT RANGES

Cat No	Temp range	Div	Immer.	Temperatures Certified	Lgth
200-116-C	0 to 230°F	2.0°	3 Inch	32, 122, 212°F	305mm (12")
200-128-C	+30 to 300°F	1.0°	3 Inch	32, 100, 200, 300°F	305mm (12")
200-126-C	+30 to 300°F	1.0°	Total	32, 100, 200, 300°F	305mm (12")
200-136-C	30 to 400°F	1.0°	76mm	100, 200, 300°F	305mm (12")
210-626-C	+30 to 120°F	0.1°	3 Inch	32, 40, 50, 60, 70, 80, 90, 100, 110, 120°F	610mm (24")
210-624-C	+30 to 120°F	0.1°	Total	32, 40, 50, 60, 70, 80, 90, 100, 110, 120°F	610mm (24")
210-622-C	+30 to 124°F	0.2°	3 Inch	32, 50, 68, 86, 104, 122°F	457mm (18")
210-620-C	+30 to 124°F	0.2°	Total	32, 50, 68, 86, 104, 122°F	457mm (18")
210-630-C	+30 to 214°F	0.2°	3 Inch	32, 50, 68, 86, 104, 122, 140, 158, 176, 194, 212°F	610mm (24")
210-628-C	+30 to 214°F	0.2°	Total	32, 50, 68, 86, 104, 122, 140, 158, 176, 194, 212°F	610mm (24")
210-634-C	+30 to 394°F	0.5°	3 Inch	32, 68, 104, 140, 176, 212, 248, 284, 320, 356, 392°F	610mm (24")
210-632-C	+30 to 394°F	0.5°	Total	32, 68, 104, 140, 176, 212, 248, 284, 320, 356, 392°F	610mm (24")

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***NON MERCURY* NIST TRACEABLE CERTIFIED THERMOMETERS**



*Fine quality, precision Non Mercury
CERTIFIED general lab thermometers.*

*For many laboratories, especially those **not**
performing tests which **specify** the use of an
ASTM thermometer, one of these
thermometers may well suffice as the only
certified thermometer needed.*

***NON MERCURY* CERTIFIED THERMOMETERS, CELSIUS RANGES**

<u>Cat No</u>	<u>Temp range</u>	<u>Div</u>	<u>Immer.</u>	<u>Temperatures Certified</u>	<u>Lqth</u>
200-416-C	-20 to 110°C	1.0°	76mm	0, 37, 56, 100°C	305mm (12")
200-414-C	-20 to 110°C	1.0°	Total	0, 37, 56, 100°C	305mm (12")
200-416-C-FS	-20 to 110°C	1.0°	76mm	-10, 0, 4, 25, 37, 56, 105°C	305mm (12")
200-414-C-FS	-20 to 110°C	1.0°	Total	-10, 0, 4, 25, 37, 56, 105°C	305mm (12")
200-404-C	-100 to +50°C	1.0°	76mm	-78, -20, 0, 4, 37°C	305mm (12")
200-402-C	-100 to +50°C	1.0°	Total	-78, -20, 0, 4, 37°C	305mm (12")
200-408-C	-50 to +50°C	1.0°	76mm	-40, 0, 40°C	305mm (12")
200-406-C	-50 to +50°C	1.0°	Total	-40, 0, 40°C	305mm (12")
210-616-C	-1 to 51°C	0.1°	76mm	0, 10, 20, 30, 37, 40, 50°C	457mm (18")
210-617-C	-1 to 51°C	0.1°	Total	0, 10, 20, 30, 37, 40, 50°C	457mm (18")
210-623-C	-10 to 150°C	0.5°	76mm	0, 100, 150, 200°C	305mm (12")
210-621-C	-10 to 150°C	0.5°	Total	0, 100, 150, 200°C	305mm (12")

***NON MERCURY* CERTIFIED THERMOMETERS, FAHRENHEIT RANGES**

<u>Cat No</u>	<u>Temp range</u>	<u>Div</u>	<u>Immer.</u>	<u>Temperatures Certified</u>	<u>Lqth</u>
210-650-C	0 to 230°F	0.5°	76mm	32, 70, 120, 170, 212°F	305mm (15")
210-648-C	0 to 230°F	0.5°	Total	32, 70, 120, 170, 212°F	305mm (15")
210-654-C	30 to 124°F	0.2°	76mm	32, 50, 68, 86, 104, 122°F	457mm (18")
210-652-C	30 to 124°F	0.2°	Total	32, 50, 68, 86, 104, 122°F	457mm (18")
200-512-C	-30 to 120°F	1.0°	76mm	32, 77, 120°F	305mm (12")
200-510-C	-30 to 120°F	1.0°	Total	32, 77, 120°F	305mm (12")
200-516-C	0 to 230°F	2.0°	76mm	32, 122, 212°F	305mm (12")
200-514-C	0 to 230°F	2.0°	Total	32, 122, 212°F	305mm (12")
200-518-C	0 to 300°F	1.0°	76mm	32, 100, 200, 300°F	305mm (12")
200-519-C	0 to 300°F	1.0°	Total	32, 100, 200, 300°F	305mm (12")
200-536-C	30 to 400°F	1.0°	76mm	100, 200, 300°F	305mm (12")

A PROTECTIVE CASE IS INCLUDED WITH EVERY THERMOMETER SHOWN ABOVE

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PARTIAL IMMERSION CERTIFIED REFERENCE THERMOMETERS

This series is essentially a clone of the ASTM Precision Reference Standard series (ASTM 62 through 70), modified for those users whose equipment will not accommodate total immersion thermometers.

These thermometers are **identical** to the ASTM 62 through 70 thermometers **except** that they are calibrated for 100mm (4") immersion and therefore do not carry an ASTM designation.

Each of these thermometers is 15" (380mm) in length and calibrated for 100mm (4") immersion. Each thermometer includes an ice point reference scale for easy verification, and is available with NIST Traceable certification at five temperatures across its range, including the ice point (0°C or 32°F).

Available in complete sets or as individual units, these thermometers are a 'must' for laboratory verification programs where only shallow calibration baths are available.



LABORATORY REFERENCE STANDARD THERMOMETER SET, 9 THERMOMETERS, CELSIUS OR FAHRENHEIT, EACH WITH CERTIFICATE, NIST TRACEABLE

SET # 6270C-100MM-C

Complete set of 62C-100MM-C through 70C-100MM-C, each with NIST Traceable Certificate at 5 ASTM specified test points, with velvet lined case. Complete coverage from -38 to 405°C

SET # 6270F-100MM-C

Complete set of 62F-100MM-C through 70F-100MM-C, each with NIST Traceable Certificate at 5 ASTM specified test points, with velvet lined case. Complete coverage from -36 to 760°F

THERMOMETERS IN THESE SETS ARE ALSO AVAILABLE INDIVIDUALLY, DESCRIBED IN DETAIL BELOW AND ON THE NEXT PAGE

Cat No.	Application	Range	Div	Length	Immersion
62C-100MM	Reference Standard	-38 to 2°C	0.1°	379mm	100mm
62C-100MM-C	CALIBRATED @ ASTM specified test points of -37, -30, -20, -10, 0°C				
62F-100MM	Reference Standard	-36 to 35°F	0.2°	379mm	100mm
62F-100MM-C	CALIBRATED @ ASTM specified test points of -35, -15, 0, 15, 32°F				

Cat No	Application	Range	Div	Length	Immersion
63C-100MM	Reference Standard	-8 to 32°C	0.1°	379mm	100mm
63C-100MM-C	CALIBRATED @ ASTM specified test points of -7, 0, 10, 20, 30°C				
63F-100MM	Reference Standard	18 to 89°F	0.2°	379mm	100mm
63F-100MM-C	CALIBRATED @ ASTM specified test points of 20, 32, 50, 70, 88°F				



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Cat No	Application	Range	Div	Length	Immersion
64C-100MM	Reference Standard	25 to 55°C	0.1°	379mm	100mm
64C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 25, 35, 45, 55°C				
64F-100MM	Reference Standard	77 to 131°F	0.2°	379mm	100mm
64F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 80, 95, 115, 130°F				

Cat No	Application	Range	Div	Length	Immersion
65C-100MM	Reference Standard	50 to 80°C	0.1°	379mm	100mm
65C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 50, 60, 70, 80°C				
65F-100MM	Reference Standard	122 to 176°F	0.2°	379mm	100mm
65F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 125, 145, 160, 175°F				

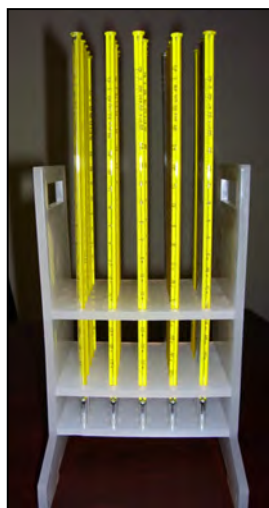
Cat No	Application	Range	Div	Length	Immersion
66C-100MM	Reference Standard	75 to 105°C	0.1°	379mm	100mm
66C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 75, 85, 95, 105°C				
66F-100MM	Reference Standard	167 to 221°F	0.2°	379mm	100mm
66F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 168, 185, 200, 220°F				

Cat No	Application	Range	Div	Length	Immersion
67C-100MM	Reference Standard	95 to 155°C	0.2°	379mm	100mm
67C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 100, 110, 130, 150°C				
67F-100MM	Reference Standard	203 to 311°F	0.5°	379mm	100mm
67F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 205, 240, 275, 310°F				

Cat No	Application	Range	Div	Length	Immersion
68C-100MM	Reference Standard	145 to 205°C	0.2°	379mm	100mm
68C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 150, 170, 190, 205°C				
68F-100MM	Reference Standard	293 to 401°F	0.5°	379mm	100mm
68F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 300, 340, 370, 400°F				

Cat No	Application	Range	Div	Length	Immersion
69C-100MM	Reference Standard	195 to 305°C	0.5°	379mm	100mm
69C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 200, 235, 270, 305°C				
69F-100MM	Reference Standard	383 to 581°F	1.0°	379mm	100mm
69F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 400, 460, 520, 580°F				

Cat No	Application	Range	Div	Length	Immersion
70C-100MM	Reference Standard	295 to 405°C	0.5°	379mm	100mm
70C-100MM-C	CALIBRATED @ ASTM specified test points of 0, 300, 335, 370, 400°C				
70F-100MM	Reference Standard	563 to 761°F	1.0°	379mm	100mm
70F-100MM-C	CALIBRATED @ ASTM specified test points of 32, 570, 640, 700, 760°F				



THERMOMETER RACK, POLYPROPYLENE

This rack holds up to 25 thermometers in a vertical position. Hole diameters in top and middle plates are 5/16" (7.9 mm) while the bottom plate has only 1/8" (3.2mm) diameter drain holes. Distance between top and bottom plates is 4 1/8" (105 mm). Overall dimensions are 5 1/8"x 8 3/8"x 9 7/8" high (149x213x251). Steam autoclavable at 250F (121C).

Cat No TR-100

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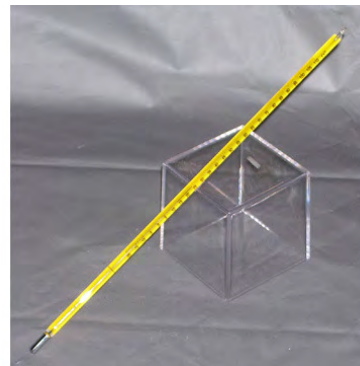
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PRECISION SPECIAL APPLICATION THERMOMETERS

Over the years special thermometers have been designed for customers with needs that were not filled by instruments in their normal product line. The following listings are among those that were developed, have gained popularity, and are now used in many special applications. They include a variety of ranges, subdivisions, immersions, and lengths. All are accurate to within NIST tolerances.

Any of these thermometers may be furnished with ICL's NIST Traceable Report of Calibration upon request.



Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
711	20 to 100°C	1.0°C	305	76	1,2	Incubator, Water Bath	No
711-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 60, 100C						
711-SC	20 to 100°C	1.0°C	305	76	1,2	Incubator, Water Bath	Yes
711-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 60, 100C						
641	0 to 80°C	1.0°C	250	100		Incubator, Water Bath	No
641-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 40, 80C						
641-SC	0 to 80°C	1.0°C	250	100		Incubator, Water Bath	Yes
641-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 40, 80C						
637-1	0 to 50°C	0.5°C	305	150	1	Incubator, Water Bath	No
637-1-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 25, 50C						
637-1SC	0 to 50°C	0.5°C	305	150	1	Incubator, Water Bath	Yes
637-1SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 25, 50C						
639-1	0 to 70°C	1.0°C	330	150	1	Incubator, Water Bath	No
639-1-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 35, 70C						
639-1-SC	0 to 70°C	1.0°C	330	150	1	Incubator, Water Bath	Yes
639-1SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 35, 70C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
713	34.5 to 46°C	0.1°C	237	76	2	Coliform Incubator	No
713-C	Above thermometer with ICL's NIST Traceable Report of Test @ 35, 40, 45C						
713-SC	34.5 to 46°C	0.1°C	237	76	2	Coliform Incubator	Yes
713-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 35, 40, 45C						
715	25 to 57°C	0.5°C	175	35	2	Block Heater, Water Bath	No
715-C	Above thermometer with ICL's NIST Traceable Report of Test @ 26, 37, 55C						
715-SC	25 to 57°C	0.5°C	175	35	2	Block Heater, Water Bath	Yes
715-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 26, 37, 55C						
647	0 to 110°C	0.5°C	225	35		Block Heater, Water Bath	No
647-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 50, 100C						
647-SC	0 to 110°C	0.5°C	225	35		Block Heater, Water Bath	Yes
647-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 50, 100C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
645	0 to 50°C	1.0°C	100	12		Short Immersion Bath	No
645-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 25, 50C						
645-SC	0 to 50°C	1.0°C	100	12		Short Immersion Bath	Yes
645-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 25, 50C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
717	5 to 20°C	1.0°C	152	Total	2	Blood Bank, Refrigerator	No
717-C	Above thermometer with ICL's NIST Traceable Report of Test @ 6, 12, 20C						

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Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
717-SC	5 to 20°C	1.0°C	152	Total	2	Blood Bank, Refrigerator	Yes
717-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 6, 12, 20C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
2457	25-37-56°C	0.5°C	240	76	2	Incubator, Water Bath	No
2457-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 37, 56C						
2457-SC	25-37-56°C	0.5°C	240	76	2	Incubator, Water Bath	Yes
2457-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 37, 56C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
80135	80 to 135°C	0.5°C	200	Total		Autoclave, Maximum Regist.	No
80135-C	Above thermometer with ICL's NIST Traceable Report of Test @ 100, 121C						
80135-SC	80 to 135°C	0.5°C	200	Total		Autoclave, Maximum Regist.	Yes
80135-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 100, 121C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
629	0 to 300°C	1.0°C	405	125	1	Ovens, oil Baths	No
629-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200, 300C						
631	0 to 300°C	1.0°C	455	150	1	Ovens, oil Baths	No
631-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200, 300C						
633	0 to 300°C	1.0°C	610	305	1	Ovens	No
633-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200, 300C						
635	0 to 200°C	1.0°C	610	305	1	Ovens	No
635-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
635-SC	0 to 200°C	1.0°C	610	305	1	Ovens	Yes
635-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
637	0 to 200°C	1.0°C	280	76	1	Ovens, oil Baths	No
637-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
637-SC	0 to 200°C	1.0°C	280	76	1	Ovens, oil Baths	Yes
637-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
639	0 to 200°C	1.0°C	405	125	1	Ovens, oil Baths	No
639-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
639-SC	0 to 200°C	1.0°C	405	125	1	Ovens, oil Baths	Yes
639-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
631350	0 to 350°C	1.0°C	455	150	1	Ovens	No
631350-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200, 300C						
24130	24 to 130°C	2.0°C	135	Total		Vacuum ovens	No
24130-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 75, 125C						
24130-SC	24 to 130°C	2.0°C	135	Total		Vacuum ovens	Yes
24130-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 75, 125C						
7200	35 to 200°C	1.0°C	180	Total		Vacuum ovens	No
7200-C	Above thermometer with ICL's NIST Traceable Report of Test @ 40, 120, 200C						
7200-SC	35 to 200°C	1.0°C	180	Total		Vacuum ovens	Yes
7200-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 40, 120, 200C						

934	24 to 38°C	0.05°C	300	95		Enzymology	No
934-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 30, 37C						

SPECIAL FEATURES:

1. Immersion enlargement on thermometer stem.
2. Arrows on scale indicating critical temperature.

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Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
711S	20 to 100°C	0.5°C	305	76	1,2	Incubator, Water Bath	No
711S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 60, 100C						
711S-SC	20 to 100°C	0.5°C	305	76	1,2	Incubator, Water Bath	Yes
711S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 60, 100C						

641S	0 to 80°C	0.5°C	250	100		Incubator, Water Bath	No
641S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 40, 80C						
641S-SC	0 to 80°C	0.5°C	250	100		Incubator, Water Bath	Yes
641S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 40, 80C						

639-1S	0 to 70°C	0.5°C	305	150	1	Incubator, Water Bath	No
639-1S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 35, 70C						
639-1S-SC	0 to 70°C	0.5°C	305	150	1	Incubator, Water Bath	Yes
639-1S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 35, 70C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
2457S	25-37-56°C	0.5°C	240	76	2	Incubator, Water Bath	No
2457S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 37, 56C						
2457S-SC	25-37-56°C	0.5°C	240	76	2	Incubator, Water Bath	Yes
2457S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 37, 56C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
715S	25 to 57°C	0.5°C	175	35	2	Block Heater, Water Bath	No
715S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 26, 37, 55C						
715S-SC	25 to 57°C	0.5°C	175	35	2	Block Heater, Water Bath	Yes
715S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 26, 37, 55C						

647S	0 to 110°C	0.5°C	225	35		Block Heater, Water Bath	No
647S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 50, 100C						
647S-SC	0 to 110°C	0.5°C	225	35		Block Heater, Water Bath	Yes
647S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 50, 100C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
717S	-5 to 20°C	0.5°C	152	Total	2	Blood Bank, Refrigerator	No
717S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 6, 12, 20C						
717S-SC	-5 to 20°C	0.5°C	152	Total	2	Blood Bank, Refrigerator	No
717S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 6, 12, 20C						

Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
637S	0 to 200°C	1.0°C	280	76	1	Ovens, oil Baths	No
637S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
637S-SC	0 to 200°C	1.0°C	280	76	1	Ovens, oil Baths	Yes
637S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						

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Cat. No.	Temp Range	Division	Length, mm	Imm, mm	Features	Applications	Teflon® Coated
639S	0 to 200°C	1.0°C	405	125	1	Ovens, oil Baths	No
639S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
639S-SC	0 to 200°C	1.0°C	405	125	1	Ovens, oil Baths	Yes
639S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 0, 100, 200C						
24130S	24 to 130°C	1.0°C	135	Total		Vacuum ovens	No
24130S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 75, 125C						
24130S-SC	24 to 130°C	1.0°C	135	Total		Vacuum ovens	Yes
24130S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 25, 75, 125C						
7200S	35 to 200°C	1.0°C	180	Total		Vacuum ovens	No
7200S-C	Above thermometer with ICL's NIST Traceable Report of Test @ 40, 120, 200C						
7200S-SC	35 to 200°C	1.0°C	180	Total		Vacuum ovens	Yes
7200S-SC-C	Above thermometer with ICL's NIST Traceable Report of Test @ 40, 120, 200C						

SPECIAL FEATURES:

1. Immersion enlargement on thermometer stem.
2. Arrows on scale indicating critical temperature.

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ARMOR CASES FOR GLASS THERMOMETERS



Available to fit most thermometers in this catalog as well as those of other manufacturers, ICL Armors are fabricated from seamless brass tubing, nickel plated for corrosion resistance. Each armor is fitted with suspension ring.

Cat No	To Fit:
210-900	6" THERMOMETERS
210-904	12" THERMOMETERS
210-908	15" THERMOMETERS
210-902	16" THERMOMETERS
210-906	18" THERMOMETERS
210-910	24" THERMOMETERS

OPTIONAL TEFLON® ENCAPSULATION

Any of the thermometers on this page and most throughout this catalog, with ranges not exceeding 260C (500F), can be furnished with a protective DuPont Teflon® sheath to reduce breakage, afford protection against acidic and alkalai attack, and to contain the mercury and glass in the event of breakage.

Add suffix '-TE' to catalog number!

Teflon® is a registered trademark of e.i. duPont

POCKET THERMOMETERS

Pocket thermometers are furnished in protective cases with a pocket clip. Also available as refill thermometers only. Thermometer length: approximately 5-1/2"

COMPLETE WITH ALUMINUM CASE

Cat No	Range	Div
210-200	-10 to 110°C	1°
210-212	0 to 220°F	2°



REFILL UNITS ONLY

Cat No	Range	Div
210-202	-10 to 110°C	1°
210-214	0 to 220°F	2°



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