

PermaTherm are Non-Mercury Thermometers. All others are Mercury Based.

ASTM THERMOMETERS							
Type	ASTM No.	Length In. (mm)	Immersion In. (mm)	Range	Div.	ASTM Model	PermaTherm
General Use	1F	12.7 (322)	3 (76)	0 to 302°F	2.0°F	MA-420F	
	1C	12.7 (322)	3 (76)	-20 to 150°C	1.0°C	MA-420C	
	2F	15.4 (390)	3 (76)	20 to 580°F	2.0°F	MA-421F	
	2C	15.4 (390)	3 (76)	-5 to 300°C	1.0°C	MA-421C	
	3F	16.3 (415)	3 (76)	20 to 760°F	2.0°F	MA-422F	
	3C	16.3 (415)	3 (76)	-5 to 400°C	1.0°C	MA-422C	
Cloud & Pour	5F	9.0 (230)	4.3 (108)	-36 to 120°F	2.0°F	MA-424F	
	5C	9.0 (230)	4.3 (108)	-38 to 50°C	1.0°C	MA-424C	
	6F	9.0 (230)	3 (76)	-112 to 70°F	2.0°F	MA-425F	
	6C	9.0 (230)	3 (76)	-80 to 20°C	1.0°C	MA-425C	
Distillation	7F	15.1 (384)	Total	30 to 580°F	2.0°F	MA-426F	
	7C	15.1 (384)	Total	-2 to 300°C	1.0°C	MA-426C	
	8F	15.1 (384)	Total	30 to 360°F	2.0°F	MA-427F	
	8C	15.1 (384)	Total	-2 to 400°C	1.0°C	MA-427C	
Precision Use¹	62F	14.9 (379)	Total	-36 to 35°F	0.2°F	MA-430F	MA-530F
	62C	14.9 (379)	Total	-38 to 2°C	0.1°C	MA-430C	MA-530C
	63F	14.9 (379)	Total	18 to 89°F	0.2°F	MA-431F	MA-531F
	63C	14.9 (379)	Total	-8 to 32°C	0.1°C	MA-431C	MA-531C
	64F	14.9 (379)	Total	77 to 131°F	0.2°F	MA-432F	MA-532F
	64C	14.9 (379)	Total	25 to 55°C	0.1°C	MA-432C	MA-532C
	65F	14.9 (379)	Total	122 to 176°F	0.2°F	MA-433F	MA-533F
	65C	14.9 (379)	Total	50 to 80°C	0.1°C	MA-433C	MA-533C
	66F	14.9 (379)	Total	167 to 221°F	0.2°F	MA-434F	MA-534F
	66C	14.9 (379)	Total	75 to 105°C	0.1°C	MA-434C	MA-534C
	67F	14.9 (379)	Total	203 to 311°F	0.5°F	MA-435F	MA-535F
	67C	14.9 (379)	Total	95 to 155°C	0.2°C	MA-435C	MA-535C
	68F	14.9 (379)	Total	293 to 401°F	0.5°F	MA-436F	
	68C	14.9 (379)	Total	145 to 205°C	0.2°C	MA-436C	
	69F	14.9 (379)	Total	383 to 581°F	1.0°F	MA-437F	
	69C	14.9 (379)	Total	195 to 305°C	0.5°C	MA-437C	
70F	14.9 (379)	Total	563 to 761°F	1.0°F	MA-438F		
70C	14.9 (379)	Total	295 to 405°C	0.5°C	MA-438C		
Precision Use Full Set¹	°F	14.9 (379)	Total	-36 to 761°F	Varies	MA-450F	
	°C	14.9 (379)	Total	-38 to 405°C	Varies	MA-450C	
Pensky-Martens & Tag Closed High	9F	11.8 (290)	2.3 (57)	20 to 230°F	1.0°F	MA-210F	
	9C	11.8 (290)	2.3 (57)	-5 to 110°C	0.5°C	MA-210C	
Tag Closed Low	57F	11.8 (290)	2.3 (57)	-4 to 122°F	1.0°F	MA-428F	
	57C	11.8 (290)	2.3 (57)	-20 to 50°C	0.5°C	MA-428C	
Pensky-Martens High	10F	11.8 (290)	2.3 (57)	200 to 700°F	5.0°F	MA-211F	
	10C	11.8 (290)	2.3 (57)	90 to 370°C	2.0°C	MA-211C	
Open Flash	11F	12.1 (310)	2.3 (57)	20 to 760°F	5.0°F	MA-212F	
	11C	12.2 (310)	2.3 (57)	-4 to 400°C	2.0°C	MA-212C	
Gravity	12F	16.5 (420)	Total	-5 to 215°F	0.5°F	MA-429F	MA-529F
	12C	16.5 (420)	Total	-20 to 102°C	0.2°C	MA-429C	MA-529C
Loss on Heat	13C	7.0 (155)	Total	155 to 170°C	0.5°C	MA-223C	
Bituminous Softening Point	15F	15.6 (396)	Total	30 to 180°F	0.5°F	MA-225F	
	15C	15.6 (396)	Total	-2 to 80°C	0.2°C	MA-225C	
	16F	15.6 (396)	Total	85 to 392°F	1.0°F	MA-226F	
	16C	15.6 (396)	Total	30 to 200°C	0.5°C	MA-226C	
	113F	15.1 (384)	Total	30 to 350°F	1.0°F	MA-227F	
	113C	15.1 (384)	Total	-1 to 175°C	0.5°C	MA-227C	
Saybolt Viscosity	17F	10.8 (275)	Total	66 to 80°F	0.2°F	MA-213F	
	17C	10.8 (275)	Total	19 to 27°C	0.1°C	MA-213C	
	18F	10.8 (275)	Total	94 to 108°F	0.2°F	MA-214F	
	18C	10.8 (275)	Total	34 to 42°C	0.1°C	MA-214C	
	19F	10.8 (275)	Total	120 to 134°F	0.2°F	MA-215F	
	19C	10.8 (275)	Total	49 to 57°C	0.1°C	MA-215C	
	20F	10.8 (275)	Total	134 to 148°F	0.2°F	MA-216F	
	20C	10.8 (275)	Total	57 to 65°C	0.1°C	MA-216C	
	21F	10.8 (275)	Total	174 to 188°F	0.2°F	MA-217F	
	21C	10.8 (275)	Total	70 to 87°C	0.1°C	MA-217C	
	22F	10.8 (275)	Total	204 to 218°F	0.2°F	MA-218F	
	22C	10.8 (275)	Total	95 to 103°C	0.1°C	MA-218C	
	77F	10.8 (275)	Total	245 to 265°F	0.5°F	MA-452F	
	78F	10.8 (275)	Total	295 to 315°F	0.5°F	MA-454F	
	108F	10.8 (275)	Total	230 to 290°F	0.5°F	MA-453F	
	109F	10.8 (275)	Total	320 to 340°F	0.5°F	MA-455F	
	79F	10.8 (275)	Total	345 to 365°F	0.5°F	MA-456F	
	80F	10.8 (275)	Total	395 to 415°F	0.5°F	MA-457F	
81F	10.8 (275)	Total	445 to 465°F	0.5°F	MA-458F		
Kinematic Viscosity	47F	12.0 (305)	Total	137.5 to 142.5°F	0.1°F	MA-219F	
	47C	12.0 (305)	Total	58.6 to 61.4°C	0.05°C	MA-219C	
	110F	12.0 (305)	Total	272.5 to 277.5°F	0.1°F	MA-220F	
	110C	12.0 (305)	Total	133.6 to 136.4°C	0.05°C	MA-220C	
Solvents Distillation	37C	15.6 (396)	3.9 (100)	-2 to 52°C	0.2°C	MA-460C	
	39C	15.6 (396)	3.9 (100)	48 to 102°C	0.2°C	MA-462C	
	41C	15.6 (396)	3.9 (100)	98 to 152°C	0.2°C	MA-464C	
	103C	15.6 (396)	3.9 (100)	148 to 202°C	0.2°C	MA-467C	
	105C	15.6 (396)	3.9 (100)	198 to 252°C	0.2°C	MA-469C	
	107C	15.6 (396)	3.9 (100)	248 to 302°C	0.2°C	MA-471C	