



Brannan

Laboratory Thermometers

**General Purpose, Educational and Specification
Thermometers**

LO-tox™ is an organic filling specially chosen to achieve a wide temperature span and provide the lowest practical levels of hazard. The quality and legibility make these an ideal substitute for mercury thermometers. Fitted with Brannan non roll end cap which has a ring to allow the thermometer to be suspended.



Range °C	Division	Length	Filling	Product No	
				76mm Imm	Total Imm
-10 to +50	1.0	155mm	Blue LO-tox™	-	44/850/7
-10 to +110	1.0	155mm	Blue LO-tox™	-	44/830/7
-35 to +50	1.0	305mm	Blue LO-tox™	44/801/8	44/809/8
-10 to +50	0.5	305mm	Blue LO-tox™	44/800/8	44/808/8
-20 to +110	1.0	305mm	Blue LO-tox™	44/802/8	44/810/8
-20 to +150	1.0	305mm	Blue LO-tox™	44/803/8	44/811/8
-10 to +210	1.0	405mm	Blue LO-tox™	44/805/8	44/812/8
-10 to +260	1.0	405mm	Blue LO-tox™	44/804/8	-
-10 to +300	1.0	305mm	Brown LO-tox™	44/815/0	-
-10 to +330	2.0	305mm	Brown LO-tox™	44/814/0	-
-1 to +51	0.1	405mm	Blue LO-tox™	44/820/0	44/821/0
-1 to +51	0.2	405mm	Blue LO-tox™	44/822/0	44/823/0
-1 to +101	0.2	405mm	Blue LO-tox™	44/824/0	44/825/0

These thermometers use specially selected filling materials covering temperatures down to -200°C. Normal fillings are coloured red on a white back glass but alternative colours are available as shown. The -200°C range thermometers are filled with a colourless liquid. Thermometers normally supplied with the non roll cap with ring.



Range °C	Division	Length	Filling	Product No	
				76mm Imm	Total Imm
-10 to +50	1.0	155mm	Red Spirit	-	44/450/0
-10 to +110	1.0	155mm	Red Spirit	-	44/430/0
-10 to +110	1.0	205mm	Red Spirit	44/423/0	44/100/4
-10 to +150	1.0	205mm	Red Spirit	44/441/0	44/442/0
-10 to +50	0.5	305mm	Red Spirit	44/401/0	44/401/1
-10 to +110	1.0	305mm	Red Spirit	44/403/0	44/010/8
-10 to +150	1.0	305mm	Red Spirit	44/406/0	44/011/8
-10 to +110	1.0	155mm	Blue Spirit	-	44/430/7
-10 to +110	1.0	305mm	Blue Spirit	44/403/7	44/010/7
-10 to +200	1.0	305mm	Blue Spirit	44/408/0	44/408/1
-10 to +110	1.0	155mm	Green Spirit	-	44/430/5
-10 to +110	1.0	205mm	Green Spirit	44/423/5	-
-10 to +110	1.0	305mm	Green Spirit	44/403/5	-
-50 to +50	1.0	305mm	Red Spirit	46/540/0	46/539/0
-100 to +50	1.0	305mm	Red Spirit	-	46/456/0
-200 to +30	1.0	355mm	Clear Pentane	-	46/440/0

Commercial grade mercury laboratory thermometers are available in white back or easier to read, yellow back glass. They are fitted with a non roll cap and suspension ring.

Range °C	Division	Length	Immersion	Product No	
				White Back	Yellow Back
-10 to +110	1.0	205mm	76mm	40/423/0	41/423/0
-10 to +150	1.0	205mm	76mm	40/441/0	41/441/0
-35 to +50	1.0	305mm	76mm	40/001/8	41/001/8
-10 to +50	0.5	305mm	76mm	40/401/0	41/401/0
-10 to +110	1.0	305mm	76mm	40/403/0	41/403/0
-10 to +110	0.5	305mm	76mm	40/803/0	41/803/0
-20 to +150	1.0	305mm	76mm	40/003/8	41/003/8
-10 to +200	1.0	305mm	76mm	40/408/0	41/408/0
-10 to +250	1.0	305mm	76mm	40/410/0	41/410/0
-10 to +300	1.0	305mm	76mm	40/412/0	41/412/0
-10 to +360	2.0	305mm	76mm	40/414/0	41/414/0
-10 to +400	2.0	405mm	76mm	40/005/8	41/005/8
-10 to +500	2.0	405mm	76mm	40/006/8	41/006/8
-10 to +50	1.0	155mm	Total	40/450/0	41/450/0
-5 to +105	1.0	155mm	Total	40/430/0	41/430/0
-10 to +250	5.0	155mm	Total	-	41/453/0
-10 to +360	5.0	155mm	Total	-	41/452/0
-10 to +110	1.0	205mm	Total	40/100/3	41/100/3
-10 to +150	1.0	205mm	Total	40/442/0	41/442/0
-35 to +50	1.0	305mm	Total	40/009/8	41/009/8
-10 to +50	0.5	305mm	Total	40/401/1	41/401/1
-20 to +110	1.0	305mm	Total	40/010/8	41/010/8
-10 to +110	0.5	305mm	Total	40/803/1	41/803/1
-20 to +150	1.0	305mm	Total	40/011/8	41/011/8
-10 to +200	1.0	305mm	Total	40/408/1	41/408/1
-10 to +250	1.0	305mm	Total	40/410/1	41/410/1
-10 to +300	1.0	305mm	Total	40/412/1	41/412/1
-10 to +360	2.0	305mm	Total	40/414/1	41/414/1
-10 to +400	2.0	405mm	Total	40/013/8	41/013/8
-10 to +500	2.0	405mm	Total	40/014/8	41/014/8



The following thermometers of higher accuracy with fractional degree sub-divisions together with various special purpose thermometers. All these instruments are made from yellow back glass and are mercury filled, fitted with non roll cap and ring.

Description	Range °C	Division	Length mm	Immersion	Product No
Fractional Degree	-1 to +51	0.2	355	Total	48/434/0
	-1 to +51	0.1	355	Total	48/435/0
	-1 to +51	0.2	355	76mm	48/454/0
	-1 to +51	0.1	355	76mm	48/455/0
	-1 to +51	0.1	460	Total	41/024/8
	-1 to +101	0.2	460	Total	48/436/0
	-1 to +51	0.1	460	76mm	41/027/8
	-1 to +101	0.2	460	76mm	48/456/0
Constricted Bore Maximum Reading	-20 to +110	1.0	250	Total	45/010/0
	-10 to +150	1.0	250	Total	45/011/0
	-10 to +200	1.0	305	Total	45/012/0
	-10 to +250	1.0	305	Total	45/013/0
Masons Melting Point Apparatus	0 to +150	0.5	250	30mm	46/801/0
	0 to +360	1.0	305	30mm	46/802/0



The **initial™** range of laboratory thermometers represents the best value in thermometers for schools. Produced in the UK in large volume to ensure a competitive price with no compromise in quality or accuracy. They feature a moulded glass triangular top to prevent rolling and are available in different lengths with a safe green filling or traditional mercury.



Range °C	Division	Length mm	Immersion	Product No
Green Filled <i>initial™</i> Brand Thermometers				
-10 to +110	1.0	150	Total	46/330/5
-10 to +110	1.0	200	76mm	46/323/5
-10 to +110	1.0	300	76mm	46/303/5
Mercury Filled <i>initial™</i> Brand Thermometers				
-10 to +110	1.0	150	Total	46/430/0
-10 to +110	1.0	300	76mm	46/403/0
Uncalibrated Thermometer, Green Filled (for student calibration)				
Covers range -10 to +110°C, length 305mm				46/603/5

The **breaksafe** Safety Coated Thermometer is similar to the 200mm **initial™** Brand thermometer above. The **breaksafe** thermometer is encapsulated in PVC to contain any glass or filling material in the event of breakage.

Range °C	Division	Length mm	Immersion	Product No
<i>breaksafe</i> PVC Coated Thermometers				
-10+110	1.0	200	76mm	44/425/0



The following kits have been developed for use in the classroom. They come complete with teaching notes and photocopiable worksheets. These kits assist teachers to operate within the National Curriculum.

Classroom Kit

Blue plastic case enclosing a variety of laboratory thermometers and a set of 'Classroom' notes.

8 x 150mm **initial** brand green filled thermometers

7 x 300mm **initial** brand green filled thermometers

1 x 300mm uncalibrated green filled thermometer

Boxed dimensions: 334 x 232 x 50mm



25/700/0

Investigative Science Kit

Blue plastic case enclosing a variety of instruments and a set of 'Investigative Science' notes.

4 x 150mm **initial** brand green filled thermometers

4 x 200mm **initial** brand green filled thermometers

2 x small classroom thermometers

1 x dial type maximum/minimum thermometer

1 x soil temperature thermometer

1 x 'Spotcheck' clinical thermometer

Boxed dimensions: 334 x 232 x 50mm



25/701/0

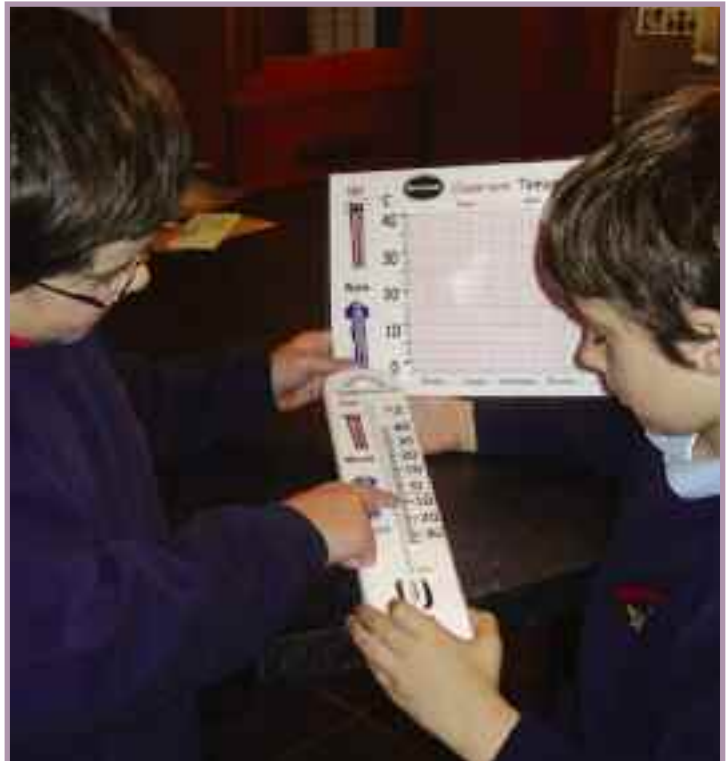
Classroom Wall Kit

Colourful 380mm plastic wall thermometer and chart for recording temperatures.

Packaged dimensions: 365 x 287 x 10mm



Thermometer with chart 25/702/0
Thermometer without chart 25/703/0



In addition to traditional red spirit filled instruments are the Brannan **LO-tox™** thermometers. **LO-tox™** is a specially selected organic filling normally coloured blue, stable over a greater temperature span and providing the lowest practical level of hazard. The quality and legibility of these thermometers provide an ideal alternative to mercury.

The thermometers are fitted with a non roll cap and suspension ring.



SAMA No	Range	Immersion	Division	Length mm	Product No LO-tox™
CT10	-35 to +50C	Total	1.0	305	44/809/8
CT15	-20 to +110C	Total	1.0	305	44/810/8
CT20	-20 to +150C	Total	1.0	305	44/811/8
FT10	-30 to +120F	Total	1.0	305	44/809/7
FT15	0 to +230F	Total	2.0	305	44/816/7
FT20	0 to +300F	Total	2.0	305	44/817/7
-	-10 to +210C	Total	1.0	405	44/812/8
CP10	-35 to +50C	76mm	1.0	305	44/801/8
CP15	-20 to +110C	76mm	1.0	305	44/802/8
CP20	-20 to +150C	76mm	1.0	305	44/803/8
CP25	-10 to +260C	76mm	1.0	405	44/804/8
-	-10 to +330C	76mm	2.0	305	#44/814/0
FP10	-30 to +120F	76mm	1.0	305	44/801/5
FP15	0 to +230F	76mm	2.0	305	44/802/7
FP20	0 to +300F	76mm	2.0	305	44/803/7
FP25	+20 to +500F	76mm	2.0	405	44/804/7
CFP15	-20 to +110C 0 to +230F	76mm	1.0 2.0	305	44/802/5
CFP20	-20 to +150C 0 to +300F	76mm	1.0 2.0	305	44/803/5
CFP25	-10 to +260C +20 to +500F	76mm	1.0 2.0	405	44/804/5

LO-tox™ Brown filling

* The SAMA numbers used are the codes for the equivalent mercury thermometers and are for reference only.

The Low Temperature SAMA thermometers have always been specified with organic filling. Included below are additional 'SAMA type' spirit filled thermometers to satisfy the preference for non-mercury fillings.

SAMA No	Range	Immersion	Division	Length mm	Product No LO-tox™
CT55	-100 to +50C	Total	1.0	305	46/456/0
CT60	-50 to +50C	Total	1.0	305	46/539/0
CT10	-35 to +50C	Total	1.0	305	44/009/8
CT15	-20 to +110C	Total	1.0	305	44/010/8
CT20	-20 to +150C	Total	1.0	305	44/011/8
FT10	-30 to +120F	Total	1.0	305	44/009/7
FT15	0 to +230F	Total	2.0	305	44/016/7
FT20	0 to +300F	Total	2.0	305	44/017/7
-	-20 to +110C 0 to +230F	Total	1.0 2.0	305	44/010/9
-	-20 to +150C 0 to +300F	Total	1.0 2.0	305	44/011/9
-	-100 to +50C	76mm	1.0	305	46/457/0
-	-50 to +50C	76mm	1.0	305	46/540/0
CP10	-35 to +50C	76mm	1.0	305	44/001/8
CP15	-20 to +110C	76mm	1.0	305	44/002/8
CP20	-20 to +150C	76mm	1.0	305	44/003/8
FP10	-30 to +120F	76mm	1.0	305	44/001/7
FP15	0 to +230F	76mm	2.0	305	44/002/7
FP20	0 to +300F	76mm	2.0	305	44/003/7
CFP15	-20 to +110C 0 to +230F	76mm	1.0 2.0	305	44/002/9
CFP20	-20 to +150C 0 to +300F	76mm	1.0 2.0	305	44/003/9

* Other than CT55 and CT60, the SAMA numbers used are the codes for the equivalent mercury thermometers and are for reference only.



SAMA Type General Purpose Mercury Filled

These thermometers generally conform to the American National Standards Institute specification ANSI Z 236.1 1983 (sponsored by the Scientific Apparatus Makers Association - SAMA).

Mercury filled thermometers are available in white back, or easier to read, yellow back glass.

The thermometers are fitted with a non roll cap and suspension ring.



SAMA No	Range	Division	Length mm	Immersion	Product No (white back)	Product No (yellow back)
CT10	-35 to +50C	1.0	305	Total	40/009/8	41/009/8
CT15	-20 to +110C	1.0	305	Total	40/010/8	41/010/8
CT20	-20 to +150C	1.0	305	Total	40/011/8	41/011/8
CT25	-10 to +260C	1.0	405	Total	40/012/8	41/012/8
CT30	-10 to +400C	2.0	405	Total	40/013/8	41/013/8
CT35	-10 to +500C	2.0	405	Total	40/014/8	41/014/8
FT10	-30 to +120F	1.0	305	Total	40/015/7	41/015/7
FT15	0 to +230F	2.0	305	Total	40/016/7	41/016/7
FT20	0 to +300F	2.0	305	Total	40/017/7	41/017/7
FT25	+20 to +500F	2.0	405	Total	40/018/7	41/018/7
FT30	+20 to +750F	5.0	405	Total	40/019/7	41/019/7
FT35	+20 to +930F	5.0	405	Total	40/020/7	41/020/7
CP10	-35 to +50C	1.0	305	76mm	40/001/8	41/001/8
CP15	-20 to +110C	1.0	305	76mm	40/002/8	41/002/8
CP20	-20 to +150C	1.0	305	76mm	40/003/8	41/003/8
CP25	-10 to +260C	1.0	405	76mm	40/004/8	41/004/8
CP30	-10 to +400C	2.0	405	76mm	40/005/8	41/005/8
CP35	-10 to +500C	2.0	405	76mm	40/006/8	41/006/8
FP10	-30 to +120F	1.0	305	76mm	40/001/7	41/001/7
FP15	0 to +230F	2.0	305	76mm	40/002/7	41/002/7
FP20	0 to +300F	2.0	305	76mm	40/003/7	41/003/7
FP25	+20 to +500F	2.0	405	76mm	40/004/7	41/004/7
FP30	+20 to +750F	5.0	405	76mm	40/005/7	41/005/7
FP35	+20 to +930F	5.0	405	76mm	40/006/7	41/006/7

These products complete the list above with double scale thermometers and fractional degree types which are only available in yellow back glass.



SAMA No	Range	Division	Length mm	Product No (yellow back)
Partial, 76mm Immersion Double Scale Thermometers				
CFP15	-20 to +110C & 0 to +230F	1.0 2.0	305	41/021/9
CFP25	-10 to +260C & +20 to +500F	1.0 2.0	405	41/022/9
CFP30	-10 to +400C & +20 to +750F	2.0 5.0	405	41/023/9
Fractional Degree, Total Immersion Thermometers				
CT40	-1 to +51C	0.1	460	41/024/8
CT45	-1 to +101C	0.1	610	41/025/8
CT50	-1 to +201C	0.2	610	41/026/8
FT40	+30 to +124F	0.2	460	41/024/7
FT55	+30 to +214F	0.2	610	41/025/7
FT50	+30 to +394F	0.5	610	41/026/7

BS 1704 : 1985 is identical to ISO 1770 - 1981 (revised in 1983). The specification includes standard thermometers (designation A to H) and thermometers of higher accuracy (designation J to W).

Thermometers with ranges below -35°C are red spirit filled. All other ranges are mercury filled and are made of yellow back glass, wherever possible.

The designation reference for partial (75mm) immersion types is suffixed "/75".

Designation		Range	Sub Div	Length mm	Product No	
Total	Partial				Total Imm	75mm Imm
A	-	*-100 to +30C	1.0	305	*50/121/0	-
B	B/75	-35 to +30C	0.5	305	50/122/0	50/142/0
C	C/75	-5 to +60C	0.5	305	50/123/0	50/143/0
D	D/75	-5 to +105C	1.0	305	50/124/0	50/144/0
E	E/75	-10 to +160C	1.0	305	50/125/0	50/145/0
F	F/75	-10 to +250C	1.0	305	50/126/0	50/146/0
G	G/75	-10 to +360C	2.0	305	50/127/0	50/147/0
H	H/75	-10 to +500C	5.0	305	50/128/0	50/148/0
Thermometers of Higher Accuracy						
J	-	*-100 to +50C	1.0	305	*50/129/0	-
K	-	*-50 to +50C	1.0	305	*50/130/0	-
P	P/75	-35 to +50C	1.0	305	50/131/0	50/151/0
R	R/75	-20 to +110C	1.0	305	50/132/0	50/152/0
S	S/75	-20 to +150C	1.0	305	50/133/0	50/153/0
T	T/75	-10 to +260C	1.0	405	50/134/0	50/154/0
V	V/75	-10 to +400C	2.0	405	50/135/0	50/155/0
W	W/75	-10 to +500C	2.0	405	50/136/0	50/156/0
Fractional Degree Thermometers						
L	L/75	-1 to +51C	0.1	460	50/137/0	50/157/0
M	M/75	-1 to +101C	0.1	610	50/138/0	50/158/0
N	N/75	-1 to +201C	0.2	610	50/139/0	50/159/0

*Red spirit filled



The thermometers covered by this Standard as listed below provide a higher accuracy than the BS 1704 : 1985 (150 1770-1981) on the previous page. We have only included celsius thermometers to the BS 593 specification. The thermometers are supplied as standard in yellow back glass wherever possible. Instruments whose range does not include 0°C are specified to have an auxillary "ice point" scale.



Designation	Nominal Range °C	Sub Div °C	Length mm	Immersion	Product No
A 10°C/Total	-30 to +10	0.1	405	Total	51/059/5
A 20°C/Total	-20 to +20	0.1	405	Total	51/060/0
A 40°C/Total	0 to +40	0.1	405	Total	51/061/0
A 70°C/Total	+40 to +70	0.1	405	Total	51/062/0
A 100°C/Total	+70 to +100	0.1	405	Total	51/063/0
A 130°C/Total	+100 to +130	0.1	405	Total	51/064/0
A 160°C/Total	+130 to +160	0.1	405	Total	51/065/0
B 60°C/Total	-20 to +60	0.2	405	Total	51/066/0
B 110°C/Total	+50 to +110	0.2	405	Total	51/067/0
B 160°C/Total	+100 to +160	0.2	405	Total	51/068/0
B 210°C/Total	+150 to +210	0.2	405	Total	51/069/0
B 260°C/Total	+200 to +260	0.2	405	Total	51/070/0
A 10°C/100	-30 to +10	0.1	405	100mm	51/001/0
A 20°C/100	-20 to +20	0.1	405	100mm	51/002/0
A 40°C/100	0 to +40	0.1	405	100mm	51/003/0
A 70°C/100	+40 to +70	0.1	405	100mm	51/004/0
A 100°C/100	+70 to +100	0.1	405	100mm	51/005/0
A 130°C/100	+100 to +130	0.1	405	100mm	51/006/0
A 160°C/100	+130 to +160	0.1	405	100mm	51/007/0
B 60°C/100	-20 to +60	0.2	405	100mm	51/008/0
B 110°C/100	+50 to +110	0.2	405	100mm	51/009/0
B 160°C/100	+100 to +160	0.2	405	100mm	51/010/0
B 210°C/100	+150 to +210	0.2	405	100mm	51/011/0
B 260°C/100	+200 to +260	0.2	405	100mm	51/012/0

These products with designation 'F' are identical to certain IP (BS:2000) and ASTM specifications and thermometers are marked accordingly. All these products are supplied in yellow back glass wherever possible.

Designation	IP No	ASTM Equiv	Nominal Range °C	Sub Div °C	Max Length mm	Immersion	Product No
F 50°C/100	77C	37C	-2 to +52	0.2	400	100mm	58/077/2
F 75°C/100	78C	38C	+24 to +78	0.2	400	100mm	58/078/2
F 100°C/100	79C	39C	+48 to +102	0.2	400	100mm	58/079/2
F 125°C/100	80C	40C	+72 to +126	0.2	400	100mm	58/080/2
F 150°C/100	81C	41C	+98 to +152	0.2	400	100mm	58/081/2
F 175°C/100	83C	102C	+123 to +177	0.2	400	100mm	58/083/2
F 200°C/100	84C	103C	+148 to +202	0.2	400	100mm	58/084/2
F 225°C/100	85C	104C	+173 to +227	0.2	400	100mm	58/085/2
F 250°C/100	86C	105C	+198 to +252	0.2	400	100mm	58/086/2
F 275°C/100	87C	106C	+223 to +277	0.2	400	100mm	58/087/2
F 300°C/100	88C	107C	+248 to +302	0.2	400	100mm	58/088/2
F 255°C/100	82C	42C	+95 to +255	0.5	400	100mm	58/082/2
F 150°C/76	-	1C	-20 to +150	1.0	327	100mm	59/001/2
F 300°C/76	62C	2C	-5 to +300	1.0	395	100mm	58/062/2
F 400°C/76	73C	3C	-5 to +400	1.0	420	100mm	58/073/2

The thermometers listed below are made in accordance with specifications drawn up by the Institute of Petroleum (IP) for use with specific test methods of petroleum and its products. Many of the tests and instrument specifications are jointly agreed with ASTM and they are marked accordingly. The list of these thermometers is now part of a British Standard.

While these thermometers were designed for specific tests, many of them have other uses as quality precision thermometers.

They are supplied in yellow back glass whenever possible.

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
1C	5C	CLOUD & POUR	-38 to +50	1.0	235	108	58/001/2
2C	6C	LOW CLOUD & POUR	-80 to +20	1.0	235	76	58/002/2
3C	-	DEMULSIFICATION	-1 to +105	0.5	305	TOTAL	58/003/2
4C	-	CRUDE OIL DISTILLATION	-4 to +360	2.0	320	TOTAL	58/004/2
5C	7C	LOW DISTILLATION	-2 to +300	1.0	390	TOTAL	58/005/2
6C	8C	HIGH DISTILLATION	-2 to +400	1.0	390	TOTAL	58/006/2
8C	-	FLUSHING-CASE LOW	0 to +45	0.2	350	65	58/008/2
9C	-	FLUSHING-CASE MEDIUM	+40 to +85	0.2	350	65	58/009/2
14C	114C	AVIATION FUEL FREEZING POINT	-80 to +20	0.5	305	TOTAL	58/014/2
15C	9C	LOW PENSKY-MARTENS	-5 to +110	0.5	295	57	58/015/2
16C	10C	HIGH PENSKY-MARTENS	+90 to +370	2.0	295	57	58/016/2
17C	14C	WAX MELTING POINT	+38 to +82	0.1	380	79	58/017/2
18C	54C	CONGEALING POINT	+20 to +100.6	0.2	315	TOTAL	58/018/2
20C	33C	LOW ANILINE POINT	-38 to +42	0.2	425	50	58/020/2
21C	34C	MEDIUM ANILINE POINT	+25 to +105	0.2	425	50	58/021/2
22C	-	OXIDATION	+195 to +205	0.1	310	100	58/022/2
23C	18C	REID VAPOUR PRESSURE	+34 to +42	0.1	280	TOTAL	58/023/2
24C	22C	OXIDATION STABILITY	+95 to +103	0.1	280	TOTAL	58/024/2
-	-	ABEL WATER BATH	+32 to +88	0.5	228	# 61	58/025/2
-	-	ABEL OIL CUP	+10 to +65	0.5	228	# 89	58/026/2
28C	11C	CLEVELAND OPEN FLASH	-6 to +400	2.0	315	25	58/028/2
29C	44C	KINEMATIC VISCOSITY 20°C	+18.6 to +21.4	0.05	310	TOTAL	58/029/2
30C	45C	KINEMATIC VISCOSITY 25°C	+23.6 to +26.4	0.05	310	TOTAL	58/030/2
31C	28C	KINEMATIC VISCOSITY 37,8°C	+36.6 to +39.4	0.05	310	TOTAL	58/031/2
32C	121C	KINEMATIC VISCOSITY 98,9°C	+98.6 to +101.4	0.05	310	TOTAL	58/032/2
33C	128C	KINEMATIC VISCOSITY 0°C	-1.4 to +1.4	0.05	310	TOTAL	58/033/2
34C	29C	KINEMATIC VISCOSITY 54,4°C	+52.6 to +55.4	0.05	310	TOTAL	58/034/2
35C	47C	KINEMATIC VISCOSITY 60°C	+58.6 to +61.4	0.05	310	TOTAL	58/035/2
36C	129C	KINEMATIC VISCOSITY 93,3°C	+91.6 to +94.4	0.05	310	TOTAL	58/036/2
37C	-	SLUDGE	+144 to +156	0.2	280	100	58/037/2
38C	-	PEN	+23 to +27	0.1	270	TOTAL	58/038/2
39C	-	DENSITY	-1 to +38	0.1	450	TOTAL	58/039/2
40C	-	DROP POINT, LOW	+20 to +120	1.0	260	100	58/040/2
41C	-	DROP POINT, HIGH	+100 to +230	1.0	260	100	58/041/2
42C	-	BREAKING POINT	-38 to +30	0.5	380	250	58/042/2
43C	-	F P CUT BACK (INT)	+10 to +110	0.5	305	# 61	58/043/2
44C	-	F P CUT BACK (EXT)	+15 to +121	0.5	305	# 89	58/044/2
45C	-	REFRACTOMETER	+15 to +30	0.2	170	22	58/045/2
46C	-	WESTPHAL BALANCE	+14.5 to +21	0.1	170	TOTAL	58/046/2
47C	13C	LOSS ON HEATING	+155 to +170	0.5	160	TOTAL	58/047/2

To suit 'Abel Apparatus'

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
48C	-	TANK LOW	-38 to +30	0.5	315	TOTAL	58/048/2
49C	-	TANK MEDIUM	-15 to +40	0.5	315	TOTAL	58/049/2
50C	-	TANK HIGH	+10 to +65	0.5	315	TOTAL	58/050/2
34C	29C	KINEMATIC VISCOSITY 54,4°C	+52.6 to +55.4	0.05	310	TOTAL	58/034/2
35C	47C	KINEMATIC VISCOSITY 60°C	+58.6 to +61.4	0.05	310	TOTAL	58/035/2
36C	129C	KINEMATIC VISCOSITY 93,3°C	+91.6 to +94.4	0.05	310	TOTAL	58/036/2
37C	-	SLUDGE	+144 to +156	0.2	280	100	58/037/2
38C	-	PEN	+23 to +27	0.1	270	TOTAL	58/038/2
39C	-	DENSITY	-1 to +38	0.1	450	TOTAL	58/039/2
40C	-	DROP POINT, LOW	+20 to +120	1.0	260	100	58/040/2
41C	-	DROP POINT, HIGH	+100 to +230	1.0	260	100	58/041/2
42C	-	BREAKING POINT	-38 to +30	0.5	380	250	58/042/2
43C	-	F P CUT BACK (INT)	+10 to +110	0.5	305	# 61	58/043/2
44C	-	F P CUT BACK (EXT)	+15 to +121	0.5	305	# 89	58/044/2
45C	-	REFRACTOMETER	+15 to +30	0.2	170	22	58/045/2
46C	-	WESTPHAL BALANCE	+14.5 to +21	0.1	170	TOTAL	58/046/2
47C	13C	LOSS ON HEATING	+155 to +170	0.5	160	TOTAL	58/047/2
48C	-	TANK LOW	-38 to +30	0.5	315	TOTAL	58/048/2
49C	-	TANK MEDIUM	-15 to +40	0.5	315	TOTAL	58/049/2
50C	-	TANK HIGH	+10 to +65	0.5	315	TOTAL	58/050/2
51C	-	TANK HEATED FUEL	+35 to +120	0.5	315	TOTAL	58/051/2
52C	-	TANK BITUMEN	+90 to +260	1.0	315	TOTAL	58/052/2
53C	-	TANK CARGO	0 to +80	0.5	315	TOTAL	58/053/2
54C	-	ANGLE STEM - TANK LOW	-38 to +30	0.5	*	*	58/054/2
55C	-	ANGLE STEM - TANK MEDIUM	-15 to +40	0.5	*	*	58/055/2
56C	-	ANGLE STEM - TANK HIGH	+10 to +65	0.5	*	*	58/056/2
57C	-	ANGLE STEM - TANK HEATED FUEL	+35 to +120	0.5	*	*	58/057/2
58C	-	ANGLE STEM - TANK BITUMEN	+90 to +260	1.0	*	*	58/058/2
59C	35C	HIGH ANILINE POINT	+90 to +170	0.2	425	50	58/059/2
60C	15C	LOW SOFTENING POINT	-2 to +80	0.2	400	TOTAL	58/060/2
61C	16C	HIGH SOFTENING POINT	+30 to +200	0.5	400	TOTAL	58/061/2
62C	2C	PARTIAL IMMERSION	-5 to +300	1.0	395	76	58/062/2
63C	61C	PETROLATUM MELTING POINT	+32 to +127	0.2	385	79	58/063/2
64C	12C	DENSITY WIDE RANGE	-20 to +102	0.2	425	TOTAL	58/064/2
65C	43C	KINEMATIC VISCOSITY LOW	-51.6 to -34	0.1	425	TOTAL	58/065/2
66C	46C	KINEMATIC VISCOSITY 50°C	+48.6 to +51.4	0.05	310	TOTAL	58/066/2
67C	72C	KINEMATIC VISCOSITY -17,8°C	-19.4 to -16.6	0.05	310	TOTAL	58/067/2
68C	73C	KINEMATIC VISCOSITY -40°C	-41.4 to -38.6	0.05	310	TOTAL	58/068/2
69C	74C	KINEMATIC VISCOSITY -53,9°C	-55.4 to -52.6	0.05	310	TOTAL	58/069/2
71C	126C	KINEMATIC VISCOSITY -26,1°C	-27.4 to -24.6	0.05	310	TOTAL	58/071/2
72C	71C	OIL IN WAX	-37 to +21	0.5	360	76	58/072/2
73C	3C	PARTIAL IMMERSION	-5 to +400	1.0	420	76	58/073/2
74C	-	ABEL OIL CUP - WIDE RANGE	-35 to +70	0.5	320	# 61	58/074/2
75C	-	ABEL WATER BATH - WIDE RANGE	-30 to +80	0.5	320	# 89	58/075/2
76C	-	ENGLER VISCOSITY	+10 to +55	0.5	250	93	58/076/2
77C	37C	SOLVENTS DISTILLATION	-2 to +52	0.2	400	100	58/077/2
78C	38C	SOLVENTS DISTILLATION	+24 to +78	0.2	400	100	58/078/2
79C	39C	SOLVENTS DISTILLATION	+48 to +102	0.2	400	100	58/079/2
80C	40C	SOLVENTS DISTILLATION	+72 to +126	0.2	400	100	58/080/2

To suit 'Abel Apparatus'

* Dimensions not specified

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
81C	41C	SOLVENTS DISTILLATION	+98 to +152	0.2	400	100	58/081/2
82C	42C	SOLVENTS DISTILLATION	+95 to +255	0.5	400	100	58/082/2
83C	102C	SOLVENTS DISTILLATION	+123 to +177	0.2	400	100	58/083/2
84C	103C	SOLVENTS DISTILLATION	+148 to +202	0.2	400	100	58/084/2
85C	104C	SOLVENTS DISTILLATION	+173 to +227	0.2	400	100	58/085/2
86C	105C	SOLVENTS DISTILLATION	+198 to +252	0.2	400	100	58/086/2
87C	106C	SOLVENTS DISTILLATION	+223 to +277	0.2	400	100	58/087/2
88C	107C	SOLVENTS DISTILLATION	+248 to +302	0.2	400	100	58/088/2
89C	113C	BITUMEN SOFTENING POINT - WIDE RANGE	-1 to +175	0.5	410	TOTAL	58/089/2
90C	48C	KINEMATIC VISCOSITY 82.2°C	+80.6 to +83.4	0.05	310	TOTAL	58/090/2
91C	-	RAPID FLASH	0 to +110	1.0	200	44	58/091/2
92C	120C	KINEMATIC VISCOSITY 40°C	+38.6 to +41.4	0.05	310	TOTAL	58/092/2
93C	110C	KINEMATIC VISCOSITY 135°C	+133.6 to +136.4	0.05	310	TOTAL	58/093/2
94C	122C	BROOKFIELD VISCOSITY	-45 to -35	0.1	305	TOTAL	58/094/2
95C	123C	BROOKFIELD VISCOSITY	-35 to -25	0.1	305	TOTAL	58/095/2
96C	124C	BROOKFIELD VISCOSITY	-25 to -15	0.1	305	TOTAL	58/096/2
97C	125C	BROOKFIELD VISCOSITY	-15 to -5	0.1	305	TOTAL	58/097/2
98C	-	RAPID FLASH (HIGH)	+100 to +300	2.0	200	44	58/098/2
99C	127C	KINEMATIC VISCOSITY -20°C	-21.4 to -18.6	0.05	310	TOTAL	58/099/2
100C	-	KINEMATIC VISCOSITY 80°C	+78.6 to +81.4	0.05	310	TOTAL	58/100/2
101C	-	MEDIUM PENSKY MARTENS	+20 to +150	1.0	295	57	58/101/2
102C	132C	KINEMATIC VISCOSITY 150°C	+148.6 to +151.4	0.05	310	TOTAL	58/102/2

To suit 'Abel Apparatus'



The thermometers listed below are in accordance with specifications of the American Society for Testings and Materials (ASTM). Many of the instruments are identical to the IP (BS 2000) thermometers listed earlier and are marked accordingly.

While these thermometers were designed for use in specific tests many of them are used in other applications when precision thermometers are required.

They are supplied in yellow back glass whenever possible.

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
1C	-	PARTIAL IMMERSION	-20 to +150C	1.0C	327	76	59/001/2
1F	-	PARTIAL IMMERSION	0 to +302F	2.0F	327	76	59/001/1
2C	62C	PARTIAL IMMERSION	-5 to +300C	1.0C	395	76	58/062/2
2F	-	PARTIAL IMMERSION	+20 to +580F	2.0F	395	76	59/002/1
3C	73C	PARTIAL IMMERSION	-5 to +400C	1.0C	420	76	58/073/2
3F	-	PARTIAL IMMERSION	+20 to +760F	2.0F	420	76	59/003/1
5C	1C	CLOUD & POUR	-38 to +50C	1.0C	235	108	58/001/2
5F	-	CLOUD & POUR	-36 to +120F	2.0F	235	108	59/005/1
6C	2C	LOW CLOUD & POUR	-80 to +20C	1.0C	235	76	58/002/2
6F	-	LOW CLOUD & POUR	-112 to +70F	2.0F	235	76	59/006/1
7C	5C	LOW DISTILLATION	-2 to +300C	1.0C	390	TOTAL	58/005/2
7F	-	LOW DISTILLATION	+30 to +580F	2.0F	390	TOTAL	59/007/1
8C	6C	HIGH DISTILLATION	-2 to +400C	1.0C	390	TOTAL	58/006/2
8F	-	HIGH DISTILLATION	+30 to +760F	2.0F	390	TOTAL	59/008/1
9C	15C	LOW PENSKY-MARTENS	-5 to +110C	0.5C	295	57	58/015/2
9F	-	LOW PENSKY-MARTENS	+20 to +230F	1.0F	295	57	59/009/1
10C	16C	HIGH PENSKY-MARTENS	+90 to +370C	2.0C	295	57	58/016/2
10F	-	HIGH PENSKY-MARTENS	+200 to +700F	5.0F	295	57	59/010/1
11C	28C	CLEVELAND OPEN FLASH	-6 to +400C	2.0C	315	25	58/028/2
11F	-	CLEVELAND OPEN FLASH	+20 to +760F	5.0F	315	25	59/011/1
12C	64C	DENSITY WIDE RANGE	-20 to +102C	0.2C	425	TOTAL	58/064/2
12F	-	DENSITY WIDE RANGE	-5 to +215F	0.5F	425	TOTAL	59/012/1
13C	47C	LOSS ON HEAT	+155 to +170C	0.5C	160	TOTAL	58/047/2
14C	17C	WAX MELTING POINT	+38 to +82C	0.1C	380	79	58/017/2
14F	-	WAX MELTING POINT	+100 to +180F	0.2F	380	79	59/014/1
15C	60C	LOW SOFTENING POINT	-2 to +80C	0.2C	400	TOTAL	58/060/2
15F	-	LOW SOFTENING POINT	+30 to +180F	0.5F	400	TOTAL	59/015/1
16C	61C	HIGH SOFTENING POINT	+30 to +200C	0.5C	400	TOTAL	58/061/2
16F	-	HIGH SOFTENING POINT	+85 to +392F	1.0F	400	TOTAL	59/016/1
17C	-	SAYBOLT VISCOSITY	+19 to +27C	0.1C	280	TOTAL	59/017/2
17F	-	SAYBOLT VISCOSITY	+66 to +80F	0.2F	280	TOTAL	59/017/1
18C	23C	REID VAPOUR PRESSURE	+34 to +42C	0.1C	280	TOTAL	58/023/2
18F	-	REID VAPOUR PRESSURE	+94 to +108F	0.2F	280	TOTAL	59/018/1
19C	-	SAYBOLT VISCOSITY	+49 to +57C	0.1C	280	TOTAL	59/019/2
19F	-	SAYBOLT VISCOSITY	+120 to +134F	0.2F	280	TOTAL	59/019/1
20C	-	SAYBOLT VISCOSITY	+57 to +65C	0.1C	280	TOTAL	59/020/2
20F	-	SAYBOLT VISCOSITY	+134 to +148F	0.2F	280	TOTAL	59/020/1
21C	-	SAYBOLT VISCOSITY	+79 to +87C	0.1C	280	TOTAL	59/021/2
21F	-	SAYBOLT VISCOSITY	+174 to +188F	0.2F	280	TOTAL	59/021/1
22C	24C	OXIDATION STABILITY	+95 to +103C	0.1C	280	TOTAL	58/024/2
22F	-	OXIDATION STABILITY	+204 to +218F	0.2F	280	TOTAL	59/022/1
23C	-	ENGLER VISCOSITY	+18 to +28C	0.2C	217	90	59/023/2
24C	-	ENGLER VISCOSITY	+39 to +54C	0.2C	242	90	59/024/2
25C	-	ENGLER VISCOSITY	+95 to +105C	0.2C	217	90	59/025/2
26C	-	NITROCELLULOSE STABILITY	+130 to +140C	0.1C	468	TOTAL	59/026/2
27C	-	TURPENTINE DISTILLATION	+147 to +182C	0.5C	306	76	59/027/2
28C	31C	KINEMATIC VISCOSITY	+36.6 to +39.4C	0.05C	310	TOTAL	58/031/2

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
28F	-	KINEMATIC VISCOSITY	+97.5 to +102.5F	0.1F	310	TOTAL	59/028/1
29C	34C	KINEMATIC VISCOSITY	+52.6 to +55.4C	0.05C	310	TOTAL	58/034/2
29F	-	KINEMATIC VISCOSITY	+127.5 to +132.5F	0.1F	310	TOTAL	59/029/1
30F	-	KINEMATIC VISCOSITY	+207.5 to +212.5F	0.1F	310	TOTAL	59/030/1
33C	20C	LOW ANILINE POINT	-38 to +42C	0.2C	425	50	58/020/2
33F	-	LOW ANILINE POINT	-36.5 to +107.5F	0.5F	425	50	59/033/1
34C	21C	MEDIUM ANILINE POINT	+25 to +105C	0.2C	425	50	58/021/2
34F	-	MEDIUM ANILINE POINT	+77 to +221F	0.5F	425	50	59/034/1
35C	59C	HIGH ANILINE POINT	+90 to +170C	0.2C	425	50	58/059/2
35F	-	HIGH ANILINE POINT	+194 to +338F	0.5F	425	50	59/035/1
36C	-	TITER TEST	-2 to +68C	0.2C	410	45	59/036/2
37C	77C	SOLVENTS DISTILLATION	-2 to +52C	0.2C	400	100	58/077/2
38C	78C	SOLVENTS DISTILLATION	+24 to +78C	0.2C	400	100	58/078/2
39C	79C	SOLVENTS DISTILLATION	+48 to +102C	0.2C	400	100	58/079/2
40C	80C	SOLVENTS DISTILLATION	+72 to +126C	0.2C	400	100	58/080/2
41C	81C	SOLVENTS DISTILLATION	+98 to +152C	0.2C	400	100	58/081/2
42C	82C	SOLVENTS DISTILLATION	+95 to +255C	0.5C	400	100	58/082/2
43C	65C	KINEMATIC VISCOSITY	-51.6 to -34C	0.1C	425	TOTAL	58/065/2
43F	-	KINEMATIC VISCOSITY	-61 to -29F	0.2F	425	TOTAL	59/043/1
44C	29C	KINEMATIC VISCOSITY	+18.6 to +21.4C	0.05C	310	TOTAL	58/029/2
44F	-	KINEMATIC VISCOSITY	+66.5 to +71.5F	0.1F	310	TOTAL	59/044/1
45C	30C	KINEMATIC VISCOSITY	+23.6 to +26.4C	0.05C	310	TOTAL	58/030/2
45F	-	KINEMATIC VISCOSITY	+74.5 to +79.5F	0.1F	310	TOTAL	59/045/1
46C	66C	KINEMATIC VISCOSITY	+48.6 to +51.4C	0.05C	310	TOTAL	58/066/2
46F	-	KINEMATIC VISCOSITY	+119.5 to +124.5F	0.1F	310	TOTAL	59/046/1
47C	35C	KINEMATIC VISCOSITY	+58.6 to +61.4C	0.05C	310	TOTAL	58/035/2
47F	-	KINEMATIC VISCOSITY	+137.5 to +142.5F	0.1F	310	TOTAL	59/047/1
48C	90C	KINEMATIC VISCOSITY	+80.6 to +83.4C	0.05C	310	TOTAL	58/090/2
48F	-	KINEMATIC VISCOSITY	+177.5 to +182.5F	0.1F	310	TOTAL	59/048/1
49C	-	STORMER VISCOSITY	+20 to +70C	0.2C	310	65	59/049/2
50F	-	GAS COLORIMETER INLET	+54 to +101F	0.1F	473	TOTAL	59/050/1
51F	-	GAS COLORIMETER OUTLET	+69 to +116F	0.1F	473	TOTAL	59/051/1
52C	-	BUTADIENE BOILING POINT RANGE	-10 to +5C	0.1C	167	TOTAL	59/052/2
54C	18C	CONGEALING POINT	+20 to +100.6C	0.2C	315	TOTAL	58/018/2
54F	-	CONGEALING POINT	+68 to +213F	0.5F	315	TOTAL	59/054/1
56C	-	BOMB CALORIMETER	+19 to +35C	0.02C	600	TOTAL	59/056/2
56F	-	BOMB CALORIMETER	+66 to +95F	0.05F	600	TOTAL	59/056/1
57C	-	TAG CLOSED TESTER LOW RANGE	-20 to +50C	0.5C	292	57	59/057/2
57F	-	TAG CLOSED TESTER LOW RANGE	-4 to +122F	1.0F	292	57	59/057/1
58C	-	TANK	-34 to +49C	0.5C	305	TOTAL	59/058/2
58F	-	TANK	-30 to +120F	1.0F	305	TOTAL	59/058/1
59C	-	TANK	-18 to +82C	0.5C	305	TOTAL	59/059/2
59F	-	TANK	0 to +180F	1.0F	305	TOTAL	59/059/1
60C	-	TANK	+77 to +260C	1.0C	305	TOTAL	59/060/2
60F	-	TANK	+170 to +500F	2.0F	305	TOTAL	59/060/1
61C	63C	PETROLATUM MELTING POINT	+32 to +127C	0.2C	385	79	58/063/2
61F	-	PETROLATUM MELTING POINT	+90 to +260F	0.5F	385	79	59/061/1
62C	-	PRECISION	-38 to +2C	0.1C	384	TOTAL	59/062/2
62F	-	PRECISION	-36 to +35F	0.2F	384	TOTAL	59/062/1
63C	-	PRECISION	-8 to +32C	0.1C	384	TOTAL	59/063/2
63F	-	PRECISION	+18 to +89F	0.2F	384	TOTAL	59/063/1

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
64C	-	PRECISION	+25 to +55C	0.1C	384	TOTAL	59/064/2
64F	-	PRECISION	+77 to +131F	0.2F	384	TOTAL	59/064/1
65C	-	PRECISION	+50 to +80C	0.1C	384	TOTAL	59/065/2
65F	-	PRECISION	+122 to +176F	0.2F	384	TOTAL	59/065/1
66C	-	PRECISION	+75 to +105C	0.1C	384	TOTAL	59/066/2
66F	-	PRECISION	+167 to +221F	0.2F	384	TOTAL	59/066/1
67C	-	PRECISION	+95 to +155C	0.2C	384	TOTAL	59/067/2
67F	-	PRECISION	+203 to +311F	0.5F	384	TOTAL	59/067/1
68C	-	PRECISION	+145 to +205C	0.2C	384	TOTAL	59/068/2
68F	-	PRECISION	+293 to +401F	0.5F	384	TOTAL	59/068/1
69C	-	PRECISION	+195 to +305C	0.5C	384	TOTAL	59/069/2
69F	-	PRECISION	+383 to +581F	1.0F	384	TOTAL	59/069/1
70C	-	PRECISION	+295 to +405C	0.5C	384	TOTAL	59/070/2
70F	-	PRECISION	+563 to +761F	1.0F	384	TOTAL	59/070/1
71C	72C	OIL IN WAX	-37 to +21C	0.5C	360	76	58/072/2
71F	-	OIL IN WAX	-35 to +70F	1.0F	360	76	59/071/1
72C	67C	KINEMATIC VISCOSITY	-19.4 to -16.6C	0.05C	310	TOTAL	58/067/2
72F	-	KINEMATIC VISCOSITY	-2.5 to +2.5F	0.1F	310	TOTAL	59/072/1
73C	68C	KINEMATIC VISCOSITY	-41.4 to -38.6C	0.05C	310	TOTAL	58/068/2
73F	-	KINEMATIC VISCOSITY	-42.5 to -37.5F	0.1F	310	TOTAL	59/073/1
74C	69C	KINEMATIC VISCOSITY	-55.4 to -52.6C	0.05C	310	TOTAL	58/069/2
74F	-	KINEMATIC VISCOSITY	-67.5 to -62.5F	0.1F	310	TOTAL	59/074/1
75F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-35 to +35F	0.5F	413	100	59/075/1
76F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-65 to +5F	0.5F	413	100	59/076/1
77F	-	SAYBOLT VISCOSITY	+245 to +265F	0.5F	280	TOTAL	59/077/1
78F	-	SAYBOLT VISCOSITY	+295 to +315F	0.5F	280	TOTAL	59/078/1
79F	-	SAYBOLT VISCOSITY	+345 to +365F	0.5F	280	TOTAL	59/079/1
80F	-	SAYBOLT VISCOSITY	+395 to +415F	0.5F	280	TOTAL	59/080/1
81F	-	SAYBOLT VISCOSITY	+445 to +465F	0.5F	280	TOTAL	59/081/1
82C	-	FUEL RATING, ENGINE	-15 to +105C	1.0C	165	30	59/082/2
82F	-	FUEL RATING, ENGINE	0 to +220F	2.0F	165	30	59/082/1
83C	-	FUEL RATING, AIR	+15 to +70C	1.0C	174	40	59/083/2
83F	-	FUEL RATING, AIR	+60 to +160F	1.0F	174	40	59/083/1
84C	-	FUEL RATING, ORIFICE TANK	+25 to +80C	1.0C	387	249	59/084/2
84F	-	FUEL RATING, ORIFICE TANK	+75 to +175F	1.0F	387	249	59/084/1
85C	-	FUEL RATING, SURGE	+40 to +150C	1.0C	314	181	59/085/2
85F	-	FUEL RATING, SURGE	+100 to +300F	2.0F	314	181	59/085/1
86C	-	FUEL RATING, MIX	+95 to +175C	1.0C	170	35	59/086/2
86F	-	FUEL RATING, MIX	+200 to +350F	2.0F	170	35	59/086/1
87C	-	FUEL RATING, COOLANT	+150 to +205C	1.0C	175	40	59/087/2
87F	-	FUEL RATING, COOLANT	+300 to +400F	1.0F	175	40	59/087/1
88C	-	VEGETABLE OIL FLASH	+10 to +200C	1.0C	292	57	59/088/2
88F	-	VEGETABLE OIL FLASH	+50 to +392F	2.0F	292	57	59/088/1
89C	-	SOLIDIFICATION POINT	-20 to +10C	0.1C	375	76	59/089/2
90C	-	SOLIDIFICATION POINT	0 to +30C	0.1C	375	76	59/090/2
91C	-	SOLIDIFICATION POINT	+20 to +50C	0.1C	375	76	59/091/2
92C	-	SOLIDIFICATION POINT	+40 to +70C	0.1C	375	76	59/092/2
93C	-	SOLIDIFICATION POINT	+60 to +90C	0.1C	375	76	59/093/2
94C	-	SOLIDIFICATION POINT	+80 to +110C	0.1C	375	76	59/094/2
95C	-	SOLIDIFICATION POINT	+100 to +130C	0.1C	375	76	59/095/2
96C	-	SOLIDIFICATION POINT	+120 to +150C	0.1C	375	76	59/096/2
97C	-	TANK	-18 to +49C	0.5C	305	TOTAL	59/097/2
97F	-	TANK	0 to +120F	1.0F	305	TOTAL	59/097/1
98C	-	TANK	+16 to +82C	0.5C	305	TOTAL	59/098/2

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
98F	-	TANK	+60 to +180F	1.0F	305	TOTAL	59/098/1
99C	-	WEATHERING TEST	-50 to +5C	0.2C	305	35	59/099/2
99F	-	WEATHERING TEST	-58 to +41F	0.5F	305	35	59/099/1
100C	-	SOLIDIFICATION POINT	+145 to +205C	0.2C	375	76	59/100/2
101C	-	SOLIDIFICATION POINT	+195 to +305C	0.5C	375	76	59/101/2
102C	83C	SOLVENTS DISTILLATION	+123 to +177C	0.2C	400	100	58/083/2
103C	84C	SOLVENTS DISTILLATION	+148 to +202C	0.2C	400	100	58/084/2
104C	85C	SOLVENTS DISTILLATION	+173 to +227C	0.2C	400	100	58/085/2
105C	86C	SOLVENTS DISTILLATION	+198 to +252C	0.2C	400	100	58/086/2
106C	87C	SOLVENTS DISTILLATION	+223 to +277C	0.2C	400	100	58/087/2
107C	88C	SOLVENTS DISTILLATION	+248 to +302C	0.2C	400	100	58/088/2
108F	-	SAYBOLT VISCOSITY	+270 to +290F	0.5F	280	TOTAL	59/108/1
109F	-	SAYBOLT VISCOSITY	+320 to +340F	0.5F	280	TOTAL	59/109/1
110C	93C	KINEMATIC VISCOSITY	+133.6 to +136.4C	0.05C	310	TOTAL	58/093/2
110F	-	KINEMATIC VISCOSITY	+272.5 to +277.5F	0.1F	310	TOTAL	59/110/1
111C	-	TAR ACID DISTILLATION	+170 to +250C	0.2C	400	100	59/111/2
112C	-	SOLIDIFICATION POINT OF BENZENE	+4 to +6C	0.02C	220	TOTAL	59/112/2
113C	89C	BITUMEN SOFTENING POINT WIDE RANGE	-1 to +175C	0.5C	410	TOTAL	58/089/2
113F	-	BITUMEN SOFTENING POINT WIDE RANGE	+30 to +350F	1.0F	410	TOTAL	59/113/1
114C	14C	AVIATION FUEL FREEZING POINT	-80 to +20C	0.5C	305	TOTAL	58/014/2
115C	-	ENCLOSED SCALE BECKMAN TYPE	5 OR 6C	0.01C	640	-	59/115/2
116C	-	BOMB CALORIMETER	+189 to +25.1C	0.01C	614	TOTAL	59/116/2
117C	-	BOMB CALORIMETER	+23.9 to +30.1C	0.01C	614	TOTAL	59/117/2
118C	-	KINEMATIC VISCOSITY	+28.6 to +31.4C	0.05C	310	TOTAL	59/118/2
118F	-	KINEMATIC VISCOSITY	+83.5 to +88.5F	0.1F	310	TOTAL	59/118/1
119C	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-38.3 to -30C	0.1C	425	100	59/119/2
119F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-37 to -22F	0.2F	425	100	59/119/1
120C	92C	KINEMATIC VISCOSITY	38.6 to +41.4C	0.05C	310	TOTAL	58/092/2
121C	32C	KINEMATIC VISCOSITY	+98.6 to +101.4C	0.05C	310	TOTAL	58/032/2
122C	94C	BROOKFIELD VISCOSITY	-45 to -35C	0.1C	305	TOTAL	58/094/2
123C	95C	BROOKFIELD VISCOSITY	-35 to -25C	0.1C	305	TOTAL	58/095/2
124C	96C	BROOKFIELD VISCOSITY	-25 to -15C	0.1C	305	TOTAL	58/096/2
125C	97C	BROOKFIELD VISCOSITY	-15 to -5C	0.1C	305	TOTAL	58/097/2
126C	71C	KINEMATIC VISCOSITY	-27.4 to -24.6C	0.05C	310	TOTAL	58/071/2
126F	-	KINEMATIC VISCOSITY	-17.5 to -12.5F	0.1F	310	TOTAL	59/126/1
127C	99C	KINEMATIC VISCOSITY	-21.4 to -18.6C	0.05C	310	TOTAL	58/099/2
128C	33C	KINEMATIC VISCOSITY	-1.4 to +1.4C	0.05C	310	TOTAL	58/033/2
128F	-	KINEMATIC VISCOSITY	+29.5 to +34.5F	0.1F	310	TOTAL	59/128/1
129C	36C	KINEMATIC VISCOSITY	+91.6 to +94.4C	0.05C	310	TOTAL	58/036/2
129F	-	KINEMATIC VISCOSITY	+197.5 to +202.5F	0.1F	310	TOTAL	59/129/1
130C	-	TANK	-7 to +105C	0.5C	305	TOTAL	59/130/2
130F	-	TANK	+20 to +220F	1.0F	305	TOTAL	59/130/1
132C	102C	KINEMATIC VISCOSITY	+148.6 to +151.4C	0.05C	310	TOTAL	58/102/2
133C	-	PRECISION	-38 to +2C	0.1C	384	76MM	59/133/2

Protective and Sampling Cases

To protect the standard 6.5mm diameter laboratory thermometer from breakage, a variety of cases are available. These have a slot front for easy reading, a suspension ring at the top and holes in the bulb end to ensure quick response to temperature.

Also available is a case with a sampling cup at the bulb end for use when the thermometer cannot be read while immersed.



Length mm	Product No
Brass Slot Front Cases	
155	47/732/0
305	47/432/0
355	47/832/0
405	47/932/0
Brass Sampling Cup Case	
305	47/436/0
Stainless Slot Front Cases	
305	47/434/0
405	47/934/0
Stainless Sampling Cup Case	
305	47/435/0

