

**ROBINSON
MANUFACTURING**
COMPANY INCORPORATED

MANUFACTURING SINCE 1954

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ROBINSON MANUFACTURING
COMPANY INCORPORATED

PRODUCT WARRANTY

Robinson Manufacturing warrants products manufactured by Robinson Manufacturing to be free of defective material and workmanship for one year from the date of shipment by Robinson Manufacturing. The liability of Robinson Manufacturing for defective equipment during the warranty period shall be limited to the repair of such equipment or replacement thereof without charge for parts or labor provided by Robinson Manufacturing. Robinson Manufacturing shall be so liable only if Robinson Manufacturing is contacted in regard to such defect immediately after its discovery

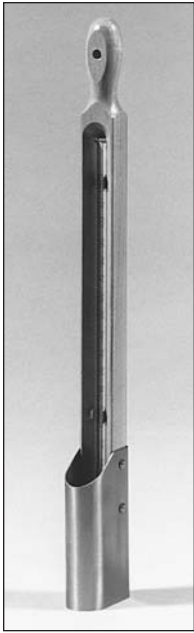
Buyer should return the defective product under warranty to Robinson Manufacturing only after receipt of Robinson Manufacturing's specific permission to do so. This warranty does not extend to any Robinson Manufacturing product which has been subject to misuse, neglect, accident, modification or improper installation, or any product which has been repaired or altered by persons not expressly approved by Robinson Manufacturing. Robinson Manufacturing will not be liable for damages, loss or expense directly or indirectly arising from the use of the products or for any liability from their use either separately or in combination with other equipment or material or for any other cause.

MERCHANDISE RETURNS

No goods should be returned to Robinson Manufacturing without specific authorization. All authorized returns for merchandise shipped by Robinson Manufacturing less than 6 months previously which are returned for any reason other than valid warranty claims will be charged a 15% restocking charge plus any expense necessary to place the merchandise in saleable condition. The restocking charge shall be 25% for goods shipped by Robinson Manufacturing more than 6 months but less than 1 year previously. No returns for credit will be accepted after 1 year from original Robinson Manufacturing shipment. Returns should be shipped freight prepaid.



TANK THERMOMETERS



THERMOMETER, TANK Woodcase

Tank thermometer meets all API and ASTM specifications. This thermometer case is designed for hand use in testing the temperature of crude oil in an open tank. It is equipped with spring clips for replacement of the thermometers.

Woodback - Standard Case

Catalog Number	Temp. Range	Divisions Deg.
405B001	-30 to 120°F	1°F
405B002	0 to 180°F	1°F
405B003	20 to 220°F	1°F
405B004	170 to 500°F	2°F
405B005	-34 to 49°C	.5°C
405B006	-18 to 82°C	.5°C
405B007	0 to 105°C	.5°C

CASE, Only-Woodback

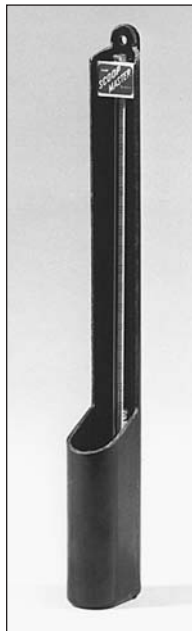
Catalog number **405A015** Standard Cup

THERMOMETER, TANK "Scoopmaster"

The unit is of single mold construction, black, heat resistant plastic. Impervious to hydrocarbons and petroleum products.

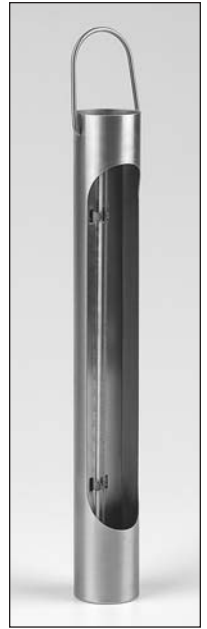
"Scoopmaster"

Catalog Number	Temp. Range	Divisions Deg.
405B017	-30 to 120°F	1°F
405B018	0 to 180°F	1°F
405B019	20 to 220°F	1°F
405B020	-34 to 49°C	5°C
405B021	-18 to 82°C	5°C
405B022	0 to 105°C	5°C



CASE, Only-"Scoopmaster"

Catalog number **405A023** Scoopmaster case



THERMOMETER, TANK Stainless Steel Cup Case

For use in corrosive materials, 1-3/4" OD x 13" long, with stainless steel spring slips for ease of thermometer replacement.

Stainless Steel Cup

Catalog Number	Temp. Range	Divisions Deg.
405B553	-30 to 120°F	1°F
405B554	0 to 180°F	1°F
405B555	20 to 220°F	1°F
405B556	170 to 500°F	2°F
405B557	-34 to 49°C	.5°C
405B558	-18 to 82°C	.5°C
405B559	-7 to 105°C	.5°C

CASE, Only-Stainless Steel Cup

Catalog number **405B529**



CORD

For lowering the tank thermometer into tank. Cotton cord 1/8" diameter, complete with ring from which to hang the tank thermometer.

Catalog number **405B024** Specify length.



REFILLS - Thermometer, Tank

Refills fit all three units, Woodback, Scoopmaster, and the Stainless Steel Cup.

Catalog Number	Temp. Range	Divisions Deg.
405A025	-30 to 120°F	1°F
405A026	0 to 180°F	1°F
405A027	20 to 220°F	1°F
405A028	170 to 500°F	2°F
405A029	-34 to 49°C	.5°C
405A030	-18 to 82°C	.5°C
405A031	-7 to 105°C	.5°C

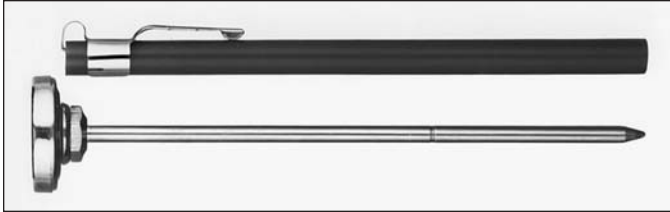


BI-METAL THERMOMETERS

Bi-Metal thermometers are made of stainless steel and are corrosion resistant to most chemicals. The dial is easy to read and is made with a bi-metallic helix coil damped with silicone for minimum pointer vibration.

THERMOMETERS, Bi-Metal, Pocket Type with Case

This handy pocket size thermometer has a 1" head and a 5" stem, with a recalibration feature.



Catalog Number	Temp. Range °F	Divisions Deg. °F
405A032	25 to 125	1
405A033	-40 to 180	2
405A034	0 to 220	2



THERMOMETER, Bi-Metal - Laboratory Type

This thermometer has a 1-3/4" head and standard stem length of 5" or 8". Unit includes an adjustable clamp, a manual pre-set indicating pointer and a recalibration feature.

Catalog Number 5" stem	Catalog Number 8" stem	Temp. Range °F	Division Deg. °F
405A035	405A038	-40 to 160	2
405A036	405A039	0 to 220	2
405A037	405A040	50 to 500	5



THERMOMETER, Bi-Metal - General Purpose Back Connected

Stainless steel construction, 1-3/4" indicator dial, corrosion resistant to most chemicals. Bi-Metallic element damped with silicone for minimum pointer vibration and maximum heat transfer. Standard 1/4" NPT connection, available in 1/8" NPT.

Catalog Number 2 1/2" stem	Catalog Number 4" stem	Catalog Number 6" stem	Temp. Range °F	Division Deg. °F
405A041	405A045	405A049	-40 to 160	2
405A042	405A046	405A050	0 to 250	2
405A044	405A048	405A052	50 to 500	5



THERMOMETER, Bi-Metal - Industrial Back Connected

Stainless steel construction, 3 inch dial, stem diameter 0.25 inches, corrosion resistant to most chemicals. Bi-Metallic elements damped with silicone for minimum pointer vibration and maximum heat transfer. Standard 1/2" NPT connection.

Catalog Number 2 1/2" stem	Catalog Number 4" stem	Catalog Number 6" stem	Temp. Range °F	Division Deg. °F
405A053	405A057	405A061	-40 to 160	2
405A054	405A058	405A062	0 to 250	2
405A056	405A060	405A064	50 to 500	5





**THERMOMETER,
Bi-Metal, Industrial Bottom Connected**

Stainless steel construction, 3 inch dial, stem diameter 0.25 inches, actuated by super-sensitive bi-metallic helix coil, stem can be located at any position around the entire circumference of the head, 1/2" NPT connection. Can be recalibrated.

Catalog Number 2 1/2" stem	Catalog Number 4" stem	Catalog Number 6" stem	Temp. Range °F	Division Deg. °F
405A065	405A069	405A073	-40 to 160	2
405A066	405A070	405A074	0 to 250	2
405A068	405A072	405A076	50 to 500	5



THERMOWELLS, Bi-Metal Thermometers

Designed and manufactured to assure a perfect alignment of the thermometer sensing element, 3/4" x 1/2" NPT. Made of 304 stainless steel.

Catalog Number	Stem Length
405A077	2-1/2"
405A078	4"
405A079	6"

BUSHING-Thermometer-304 Stainless Steel

Catalog Number	Size	Rating
405A080	1/4" x 1/2"	3000 psi
405A081	1" x 1/2"	3000 psi



**THERMOMETER, Bi-Metal, Industrial, Bottom
Connected, Adjustable Angle**

Head may be turned or tilted to any angle. Stainless steel construction, 5 inch dial, stem diameter 0.25 inches, external calibration, hermetically sealed, 1/2" NPT connection.

Catalog Number 2 1/2" stem	Catalog Number 4" stem	Catalog Number 6" stem	Temp. Range °F	Division Deg. °F
405A497	405A500	405A503	-40 to 160	2
405A498	405A501	405A504	0 to 250	2
405A499	405A502	405A505	50 to 500	5





DIGITAL TEMPERATURE

Ruggedized to withstand a 10 ft. drop, easy-to-read LCD display, auto power off, data hold and continuous update.

Specifications:

- Range: -40 to 300°F
- Accuracy: $\pm 0.2^\circ\text{F}$
- Probe: 5" stem
- Power: Button battery
- Carrying Case: Plastic sheath

Catalog number 405A168



THERMO PROBE TP-7

Designed to provide the operator with an easy and accurate method for temperature readings. Has a temperature range of 14 to 370°F/-10 to 88°C, a platinum RTD temperature sensor, LCD display with back light, low battery indicator, flexible graphite-impregnated teflon cable, stainless steel sensor components and enclosure of high impact plastic. Offered in three cable lengths, 50', 75' and 110'. 13-1/2 x 7-1/2 x 4-1/2 in. Weight 3 lbs with 75' cable. Intrinsically safe for use in hazardous locations Class 1, Div. 1 Groups ABCD

Catalog number 405A175



ELECTRO-THERM DIGITAL TEMPERATURE TESTER

An economical digital temperature tester ideal for field work. Portable and light weight with high-tech features for fast, accurate readings in a wide temperature range.

Specifications:

- Range: -40 to 300°F / -40 to 150°C
- Resolution: 0.1°F or °C
- Accuracy: $\pm 0.2^\circ\text{F}$ or °C
- Display: Easy to read, backlighted LCD 4 digits with one decimal point
- Probe: 4 inch, detachable
- Power: 9 volt battery
- Carrying Case: Durable shock resistant plastic
- Size: 9-1/2" x 6-1/2" x 2-1/2" (case closed)
- Weight: 1 lb.

Catalog number 405A176

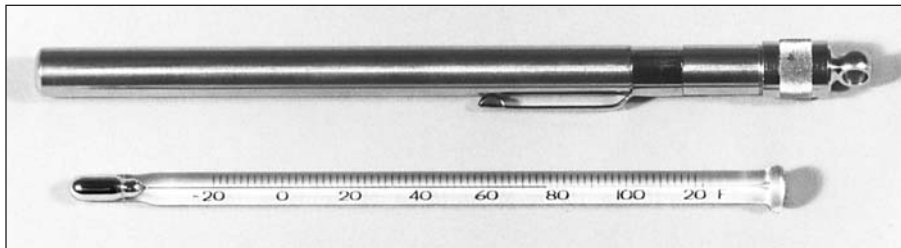


ONECAL

Specially designed for use in hazardous environment with outstanding characteristics regarding safety, easiness of operation, accuracy reliability and cost efficient maintenance. Has a temperature range of -40 to 325°F/-40 to 163°C, LCD display, FEP jacket cable, stainless steel sensor components, high impact plastic and automatic battery shut off. One reference point calibration. SCS: Surrounding compensation system and CRC: Cable resistance compensation. Offered in three cable lengths, 50', 75' and 110'. Weight 3 lbs with 75' cable. Intrinsically safe for use in hazardous locations Class 1, Div. 1 Groups C&D

Catalog number 405A178

THERMOMETERS, Pocket, Precision, Mercury Filled, Etched stem, Mounted in a aluminum case with a pocket clip, 6 inch length total immersion.



Complete Units

Catalog Number	Temp. Range °F	Division Deg. °F
405B154	-30 to 120	2
405B155	0 to 220	2
405B156	30 to 500	5

Refills

Catalog Number	Temp. Range °F	Division Deg. °F
405A157	-30 to 120	2
405A158	0 to 220	2
405A159	30 to 500	5

Complete Units

Catalog Number	Temp. Range °C	Division Deg. °C
405B160	-35 to 50	1
405B161	-20 to 105	1
405B162	-2 to 260	3

Refills

Catalog Number	Temp. Range °C	Division Deg. °C
405A163	-35 to 50	1
405A164	-20 to 105	1
405A165	-2 to 260	3

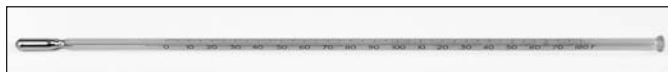
THERMOMETERS, Maximum Registering

Complete Units

Catalog Number	Temp. Range °F	Division Deg. °F
405B549	30 to 220	2
405B550	50 to 500	2

Refills

Catalog Number	Temp. Range °F	Division Deg. °F
405A551	30 to 220	2
405A552	50 to 500	2



NO MERCURY THERMOMETERS

PermaTherm® Thermometers

PermaTherm is a registered trademark of Miller & Weber, Inc.

Performance PermaTherm thermometers have precise tolerances, low uncertainty, and quick response time like mercury instruments. Tolerance is the maximum permissible error of the instrument. Uncertainty is the maximum expected error of any reported reading. Response time is the time needed to get a reliable reading.

Safety PermaTherm's STB blue liquid is safer than both mercury and most traditional spirit thermometer liquids. The proprietary formula is biodegradable, nontoxic, and nonhazardous.

Legibility The dark blue liquid is easily read against the white-backed stem.

ASTM-like Precision PermaTherm meets all ASTM standards for accuracy, tolerance and uncertainty.

Please call us for availability

THERMOMETERS, ASTM

Cat. No.	Test	A.S.T.M. No.	Scale Range	Div.	Len. mm.	Imm. mm.
405A250	Partial Immersion	1 C	-20 to 150°C	1°C	322	76
405A251	Partial Immersion	1 F	0 to 302°F	2°F	322	76
405A252	Partial Immersion	2 C	-5 to 300°C	1°C	390	76
405A253	Partial Immersion	2 F	20 to 580°F	2°F	390	76
405A254	Partial Immersion	3 C	-5 to 400°C	1°C	413	76
405A255	Partial Immersion	3 F	20 to 760°F	2°F	413	76
405A256	Acid Heat	4 C	-1 to 105°C	5°C	381	152
405A257	Acid Heat	4 F	30 to 220°F	1°F	381	152
405A258	Cloud & Pour	5 C	-38 to 50°C	1°C	231	108
405A259	Cloud & Pour	5 F	-36 to 120°F	2°F	231	108
405A260	Low Cloud & Pour	6 C	-80 to 20°C	1°C	232	76
405A261	Low Cloud & Pour	6 F	-112 to 70°F	2°F	232	76
405A262	Low Distillation	7 C	-2 to 300°C	1°C	386	Total
405A263	Low Distillation	7 F	30 to 580°F	2°F	386	Total
405A264	High Distillation	8 C	-2 to 400°C	1°C	386	Total
405A265	High Distillation	8 F	30 to 760°F	2°F	386	Total
405A266	Pensky-Martens Low	9 C	-5 to 110°C	5°C	287	57
405A267	Pensky-Martens Low	9 F	20 to 230°F	1°F	287	57
405A268	Pensky-Martens High	10 C	90 to 370°C	2°C	287	57
405A269	Pensky-Martens High	10 F	200 to 700°F	5 °F	287	57
405A270	Open Flash	11 C	-6 to 400°C	2°C	308	25
405A271	Open Flash	11 F	20 to 760°F	5°F	308	25
405A272	Gravity	12 C	-20 to 102°C	.2°C	420	Total
405A273	Gravity	12 F	-5 to 215°F	.5°F	420	Total
405A274	Loss on Heat	13 C	155 to 170°C	.5°C	169	Total
405A275	Paraffin Wax M.P.	14 C	38 to 82°C	.1°C	377	79
405A276	Paraffin Wax M.P.	14 F	100 to 180°F	.2°F	377	79
405A277	Low Softening Point	15 C	-2 to 80°C	.2°C	397	Total
405A278	Low Softening Point	15 F	30 to 180°F	.5°F	397	Total
405A279	High Softening Point	16 C	30 to 200°C	.5°C	397	Total
405A280	High Softening Point	16 F	85 to 392°F	.1°F	397	Total
405A281	Saybolt Viscosity	17 C	19 to 27°C	.1°C	275	Total
405A282	Saybolt Viscosity	17 F	66 to 80°F	.2°F	275	Total
405A283	Saybolt Viscosity	18 C	34 to 42°C	.1°C	275	Total
405A284	Saybolt Viscosity	18 F	94 to 108°F	.2°F	275	Total
405A285	Saybolt Viscosity	19 C	49 to 57°C	.1°C	275	Total
405A286	Saybolt Viscosity	19 F	120 to 134°F	.2°F	275	Total
405A287	Saybolt Viscosity	20 C	57 to 65°C	.1°C	275	Total
405A288	Saybolt Viscosity	20 F	134 to 148°F	.2°F	275	Total
405A289	Saybolt Viscosity	21 C	79 to 87°C	.1°C	275	Total
405A290	Saybolt Viscosity	21 F	174 to 188°F	.2°F	275	Total
405A291	Saybolt Viscosity	22 C	95 to 103°C	.1°C	275	Total
405A292	Saybolt Viscosity	22 F	204 to 218°F	.2°F	275	Total
405A293	Engler Viscosity	23 C	18 to 28°C	.2°C	212	90
405A294	Engler Viscosity	24 C	39 to 54°C	.2°C	237	90
405A295	Engler Viscosity	25 C	95 to 105°C	.2°C	212	90
405A296	Stability Test of Nitrocellulose	26 C	130 to 140°C	.1°C	463	Total
405A297	Turpentine Distillation	27 C	147 to 182°C	.5°C	301	76



Cat. No.	Test	A.S.T.M. No.	Scale Range	Div.	Len. mm.	Imm. mm.
405A298	Kinematic Viscosity	28 F	97.5 to 102.5°F	.1°F	305	Total
405A299	Kinematic Viscosity	29 F	127.5 to 132.5°F	.1°F	305	Total
405A300	Kinematic Viscosity	30 F	207.5 to 212.5°F	.1°F	305	Total
405A301	Reid Vapor Pressure Air Chamber	31 F	-30 to 120°F	1°F	305	Total
405A302	Aniline Point	33 C	-38 to 42°C	.2°C	419	50
405A303	Aniline Point	33 F	-36.5 to 107.5°F	.5°F	419	50
405A304	Aniline Point	34 C	25 to 105°C	.2°C	419	50
405A305	Aniline Point	34 F	77 to 221°F	.5°F	419	50
405A306	Aniline Point	35 C	90 to 170°C	.2°C	419	50
405A307	Aniline Point	35 F	194 to 338°F	.5°F	419	50
405A308	Titer Test	36 C	-2 to 68°C	.2°C	405	45
405A309	Solvents Distillation	37 C	-2 to 52°C	.2°C	395	100
405A310	Solvents Distillation	38 C	24 to 78°C	.2°C	395	100
405A311	Solvents Distillation	39 C	48 to 102°C	.2°C	395	100
405A312	Solvents Distillation	40 C	72 to 126°C	.2°C	395	100
405A313	Solvents Distillation	41 C	98 to 152°C	.2°C	395	100
405A314	Solvents Distillation	42 C	95 to 255°C	.5°C	395	100
405A315	Kinematic Viscosity	43 F	-61 to -29°F	.2°F	420	Total
405A316	Kinematic Viscosity	44 C	18.6 to 21.4°C	.05°C	305	Total
405A317	Kinematic Viscosity	44 F	66.5 to 71.5°F	.1°F	305	Total
405A318	Kinematic Viscosity	45 C	23.6 to 26.4°C	.05°C	305	Total
405A319	Kinematic Viscosity	45 F	74.5 to 79.5°F	.1°F	305	Total
405A320	Kinematic Viscosity	46 C	48.6 to 51.4°C	.05°C	305	Total
405A321	Kinematic Viscosity	46 F	119.5 to 124.5°F	.1°F	305	Total
405A322	Kinematic Viscosity	47 C	58.6 to 61.4°C	.05°C	305	Total
405A323	Kinematic Viscosity	47 F	137.5 to 142.5°F	.1°F	305	Total
405A324	Kinematic Viscosity	48 F	177.5 to 182.5°F	.1°F	305	Total
405A325	Stormer Viscosity	49 C	20 to 70°C	.2°C	305	65
405A326	Gas Calorimeter Inlet	50 F	54 to 101°F	.1°F	468	Total
405A327	Gas Calorimeter Outlet	51 F	69 to 116°F	.1°F	468	Total
405A328	Gas Calorimeter Flue	52 F	54 to 101°F	.1°F	209	Total
405A329	Butadiene Boiling Point Range	52 C	-10 to 5°C	.1°C	162	Total
405A330	Benzene Freezing Point	53 C	-0.6 to 10.4°C	.1°C	189	Total
405A331	Congealing Point	54 C	20 to 100°C	.2°C	312	Total
405A332	Congealing Point	54 F	68 to 213°F	.5°F	312	Total
405A333	Bomb Calorimeter	56 C	19 to 35°C	.02°C	585	Total
405A334	Bomb Calorimeter	56 F	66 to 95°F	.05°F	585	Total
405A335	Tag Closed Tester Low Range	57 C	-20 to 50°C	.5°C	287	57
405A336	Tag Closed Tester Low Range	57 F	-4 to 122°F	1°F	287	57
405A337	Tank	58 C	-34 to 49°C	.5°C	303	Total
405A338	Tank	58 F	-30 to 120°F	1°F	303	Total
405A339	Tank	59 C	-18 to 82°C	.5°C	303	Total
405A340	Tank	59 F	0 to 180°F	1°F	303	Total
405A341	Tank	60 C	77 to 260°C	1°C	303	Total
405A342	Tank	60 F	170 to 500°F	2°F	303	Total
405A343	Petrolatum Melting Point	61 C	32 to 127°C	.2°C	381	79
405A344	Petrolatum Melting Point	61 F	90 to 260°F	.5°F	381	79



Cat. No.	Test	A.S.T.M. No.	Scale Range	Div.	Len. mm.	Imm. mm.
405A345	Precision	62 C	-38 to 2°C	.1°C	379	Total
405A346	Precision	62 F	-36 to 35°F	.2°F	379	Total
405A347	Precision	63 C	-8 to 32°C	.1°C	379	Total
405A348	Precision	63 F	18 to 89°F	.2°F	379	Total
405A349	Precision	64 C	25 to 55°C	.1°C	379	Total
405A350	Precision	64 F	77 to 131°F	.2°F	379	Total
405A351	Precision	65 C	50 to 80°C	1°C	379	Total
405A352	Precision	65 F	122 to 176°F	.2°F	379	Total
405A353	Precision	66 C	75 to 105°C	.1°C	379	Total
405A354	Precision	66 F	167 to 221°F	.2°F	379	Total
405A355	Precision	67 C	95 to 155°C	.2°C	379	Total
405A356	Precision	67 F	203 to 311°F	.5°F	379	Total
405A357	Precision	68 C	145 to 205°C	.2°C	379	Total
405A358	Precision	68 F	293 to 401°F	.5°F	379	Total
405A359	Precision	69 C	196 to 305°C	.5°C	379	Total
405A360	Precision	69 F	383 to 581°F	1°F	379	Total
405A361	Precision	70 C	295 to 405°C	.5°C	379	Total
405A362	Precision	70 F	563 to 761°F	1°F	379	Total
405A363	Oil in Wax	71 C	-37 to 21°C	.5°C	355	76
405A364	Oil in Wax	71 F	-35 to 70°F	1°F	355	76
405A365	Kinematic Viscosity	72 F	-2.5 to 2.5°F	.1°F	305	Total
405A366	Kinematic Viscosity	73 C	-41.4 to -38.6°C	.05°C	305	Total
405A367	Kinematic Viscosity	73 F	-42.5 to -37.5°F	.1°F	305	Total
405A368	Kinematic Viscosity	74 F	-67.5 to -62.5°F	.1°F	305	Total
405A369	Antifreeze Freezing Point	75 F	-35 to 35°F	.5°F	408	100
405A370	Antifreeze Freezing Point	76 F	-65 to 5°F	.5°F	408	100
405A371	Saybolt Viscosity	77 F	245 to 265°F	.5°F	275	Total
405A372	Saybolt Viscosity	78 F	295 to 315°F	.5°F	275	Total
405A373	Saybolt Viscosity	79 F	345 to 365°F	.5°F	275	Total
405A374	Saybolt Viscosity	80 F	395 to 415°F	.5°F	275	Total
405A375	Saybolt Viscosity	81 F	445 to 465°F	.5°F	275	Total
405A376	Fuel Rating Engine	82 C	-15 to 105°C	1°C	162	30
405A377	Fuel Rating Engine	82 F	0 to 220°F	2°F	162	30
405A378	Fuel Rating Air	83 C	15 to 70°C	1°C	171	40
405A379	Fuel Rating Air	83 F	60 to 160°F	1°F	171	40
405A380	Fuel Rating Office Tank	84 C	25 to 80°C	1°C	382	249
405A381	Fuel Rating Office Tank	84 F	75 to 175°F	1°F	382	249
405A382	Fuel Rating Surge	85 C	40 to 150°C	1°C	310	181
405A383	Fuel Rating Surge	85 F	100 to 300°F	2°F	310	181
405A384	Fuel Rating Mix	86 C	95 to 175°C	1°C	167	35
405A385	Fuel Rating Mix	86 F	200 to 350°F	2°F	167	35
405A386	Fuel Rating Coolant	87 C	150 to 205°C	1°C	172	40
405A387	Fuel Rating Coolant	87 F	300 to 400°F	1°F	172	40
405A388	Vegetable Oil Flash	88 C	10 to 200°C	1°C	287	57
405A389	Vegetable Oil Flash	88 F	50 to 392°F	2°F	287	57
405A390	Solidification Point	89 C	-20 to 10°C	.1°C	370	76
405A391	Solidification Point	90 C	0 to 30°C	.1°C	370	76
405A392	Solidification Point	91 C	20 to 50°C	.1°C	370	76
405A393	Solidification Point	92 C	40 to 70°C	.1°C	370	76
405A394	Solidification Point	93 C	60 to 90°C	.1°C	370	76
405A395	Solidification Point	94 C	80 to 110°C	.1°C	370	76
405A396	Solidification Point	95 C	100 to 130°C	.1°C	370	76
405A397	Solidification Point	96 C	120 to 150°C	.1°C	370	76



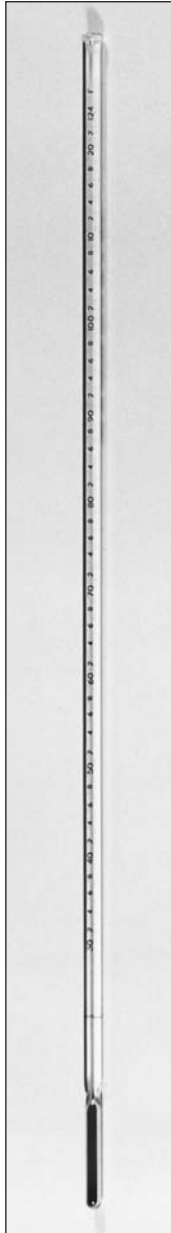
Cat. No.	Test	A.S.T.M. No.	Scale Range	Div.	Len. mm.	Imm. mm.
405A398	Tank	97 C	-18 to 49°C	.5°C	303	Total
405A399	Tank	97 F	0 to 120°F	1°F	303	Total
405A400	Tank	98 C	16 to 82°C	.5°C	303	Total
405A401	Tank	98 F	60 to 180°F	1°F	303	Total
405A402	Weathering Test	99 F	-55 to 40°F	.5°F	302	35
405A403	Solidification Point	100 C	145 to 205°C	.2°C	370	76
405A404	Solidification Point	101 C	195 to 305°C	.5°C	370	76
405A405	Solvents Distillation	102 C	123 to 177°C	.2°C	395	100
405A406	Solvents Distillation	103 C	148 to 202°C	.2°C	395	100
405A407	Solvents Distillation	104 C	173 to 227°C	.2°C	395	100
405A408	Solvents Distillation	105 C	198 to 252°C	.2°C	395	100
405A409	Solvents Distillation	106 C	223 to 277°C	.2°C	395	100
405A410	Solvents Distillation	107 C	248 to 302°C	.2°C	395	100
405A411	Saybolt Viscosity	108 F	270 to 290°F	.5°F	275	Total
405A412	Saybolt Viscosity	109 F	320 to 340°F	.5°F	275	Total
405A413	Kinematic Viscosity	110 C	133.6 to 136.4°C	.05°C	305	Total
405A414	Kinematic Viscosity	110 F	272.5 to 277.5°F	.1°F	305	Total
405A415	Tar Acids Distillation	111 C	170 to 250°C	.2°C	395	100
405A416	Benzene Freezing Point	112 C	4 to 6°C	.02°C	215	Total
405A417	Bituminous Softening Point	113 C	-1 to 175°C	.5°C	406	Total
405A418	Bituminous Softening Point	113 F	30 to 350°F	1°F	406	Total
405A419	Aviation Fuel Freezing Point	114 C	-80 to 20°C	.5°C	300	Total
405A420	Beckmann Differential	115 C	0 to 6°C .01°C	640	Total	
405A421	Bomb Calorimeter	116 C	18.9 to 25.1°C	.01°C	609	Total
405A422	Bomb Calorimeter	117 C	23.9 to 30.1°C	.01°C	609	Total
405A423	Kinematic Viscosity	118 C	28.6 to 31.4°C	.05°C	305	Total
405A424	Kinematic Viscosity	118 F	83.5 to 88.5°F	.1°F	305	Total
405A425	Freezing Point	119 C	-38.3 to -30°C	.1°C	420	100
405A426	Freezing Point	119 F	-37 to -22°F	.2°F	420	100
405A427	Kinematic Viscosity	120 C	38.5 to 41.5°C	.05°C	305	Total
405A428	Kinematic Viscosity	121 C	98.5 to 101.5°C	.05°C	305	Total
405A429	Brookfield Viscosity	122 C	-45 to -35°C	.1°C	300	Total
405A430	Brookfield Viscosity	123 C	-35 to -25°C	.1°C	300	Total
405A431	Brookfield Viscosity	124 C	-25 to -15°C	.1°C	300	Total
405A432	Brookfield Viscosity	125 C	-15 to -5°C	.1°C	300	Total
405A540	Kinematic Viscosity	126 C	-27.4 to -24.6°C	.05°C	305	Total
405A541	Kinematic Viscosity	126 F	-17.5 to -12.5°F	.1°F	305	Total
405A542	Kinematic Viscosity	127 C	-21.4 to -18.6°C	.05°C	305	Total
405A543	Kinematic Viscosity	128 C	-1.4 to 1.4°C	.05°C	305	Total
405A544	Kinematic Viscosity	128 F	29.5 to 34.5°F	.1°F	305	Total
405A545	Kinematic Viscosity	129 C	91.6 to 94.4°C	.05°C	305	Total
405A546	Kinematic Viscosity	129 F	197.5 to 202.5°F	.1°F	305	Total
405A547	Tank-Lens Front	130 C	-7 to 105°C	.5°C	305	Total
405A548	Tank-Lens Front	130 F	20 to 220°F	1.0°F	305	Total



CERTIFIED THERMOMETERS

Certified thermometers are available upon request.

Thermometers are certified by an independent laboratory or by the factory and are both traceable to NIST (formerly NBS).
Each instrument is accompanied by a document of certification that includes the correction at each temperature tested.



Thermometer, Chemical, Precision grade

Total Immersion	3"/76mm Immersion	Temp. Range	Division Deg.	Length
405A433	405A439	-30 to 120°F	1°F	12"
405A434	405A440	0 to 120°F	1/2°F	12"
405A435	405A441	0 to 230°F	2°F	12"
405A436	405A442	0 to 300°F	2°F	12"
405A437	405A443	20 to 500°F	2°F	16"
405A438	405A444	20 to 750°F	5°F	16"
405A445	405A450	-35 to 50°C	1°C	305 mm
405A446	405A451	-20 to 110°C	1°C	305 mm
405A447	405A452	-20 to 150°C	1°C	305 mm
405A448	405A453	-10 to 260°C	1°C	405 mm
405A449	405A454	-10 to 400°C	2°C	405 mm

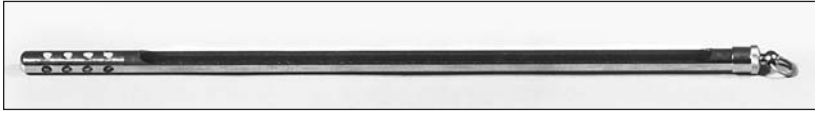
Thermometer, Chemical, Extreme Precision grade

Total Immersion	3"/76mm Immersion	Temp. Range	Division Deg.	Length
405A455	405A479	-30 to 120°F	0.2°F	24"
405A456	405A458	30 to 124°F	0.2°F	18"
	405A457	30 to 120°F	0.1°F	24"
405A459		-35 to 50°C	0.1°C	24"
405A460	405A461	-1 to 51°C	0.1°F	18"
	405A528	30 to 214°F	0.5°F	18"
	405A539	30 to 214°F	0.2°F	24"

Thermometer, other

Catalog Number	Description	Immersion	Temp. Range	Division Deg.	Length
405A462	Dewpoint	Total	-30 to 110°F	1°F	10"
405A463	Dewpoint	Total	-90 to 40°F	1°F	10"
405A464	Propane & Butane Testing	Total	-70 to 70°F	1°F	9 1/2"

ACCESSORIES, THERMOMETER



ARMORS, Thermometer, Nickel Plated

Catalog Number	For Thermometers Length
405A465	12"
405A466	15"
405A467	16"
405A468	18"
405A469	24"



CASES, Carrying Thermometer

Aluminum case* with felt-lining, and screw cap.

Catalog Number	For Thermometer Length
405B473	12"
405B474	15"
405B475	16"
405B476	18"
405B477	24"
405A478	cap, thermometer threaded

*Special lengths available.