IP Thermometers

LINETRONIC TECHNOLOGIES

ASTM	IP	Name	Range+T°	Division mm	Immersion mm	Lenght mm
1C	-	Partial immersion	-20 +150°C	1	76	322
1C	5C	Cloud and Pour	-38 +50°C	1	108	230
1F	5F	Cloud and Pour	-36 +120°F	2	108	230
2C	6C	Low Cloud and Pour	-80 +20°C	1	76	230
2F	6F	Low Cloud and Pour	-112 +70°F	2	76	230
3C	-	Demulsification	-1 +105°C	0.5	Total	-
3F	-	Demulsification	30 +220°F	1	Total	-
4C	-	Crude Oil Distillation	-4 +360°C	2	Total	310
5C	7C	Low Distillation	-2 +300°C	1	Total	385
6C	8C	High Distillation	-2 +400°C	1	Total	385
8C	-	Flushing Case Low	0 +45°C	0.2	65	340
9C	-	Flushing Case Low	40 +85°C	0.2	65	340
14C	114C	Aviation Fuel Freezing Point	-80 +20°C	0.5	Total	300
15C	9C	Low Pensky Martens	-5 +110°C	0.5	57	290
15F	9F	Low Pensky Martens	20 +230°F	1	57	290
16C	10C	High Pensky Martens	90 +370°C	2	57	290
16F	10F	High Pensky Martens	200 +700°F	5	57	290
17C	14C	Wax Melting Point	38 +82°C	0.1	79	375
17F	14F	Wax Melting Point	100 +180°F	0.2	79	375
18C	54C	Congealing Point	20 +100.6°C	0.2	Total	310
20C	54C	Low Aniline Point	-38 +42°C	0.2	50	420
21C	33C	Medium Aniline Point	25 +105°C	0.2	50	420
22C	34C	Oxidation	195 +205°C	0.1	100	300
23C	18C	Reid Vapour Pressure	34 +42°C	0.1	Total	275
23F	18F	Reid Vapour Pressure	94 +108°F	0.2	Total	275
24C	22C	Oxidation Stability	95 +103°C	0.1	Total	275
24F	22F	Oxidation Stability	204 +218°F	0.2	Total	275
28C	11C	Cleveland Open Flash	-6 +400°C	2	25	310
28F	11F	Cleveland Open Flash	20 +760°F	5	25	310
29C	44C	Kinematic Viscosity	18.6 +21.4°C	0.05	Total	305
29F	44F	Kinematic Viscosity	66.5 +71.5°F	0.1	Total	305
30C	45C	Kinematic Viscosity	23.6 +26.4°C	0.05	Total	305
30F	45F	Kinematic Viscosity	74.5 +79.5°F	0.1	Total	305
31C	28C	Kinematic Viscosity	36.6 +39.4°C	0.05	Total	305
31F	28F	Kinematic Viscosity	97.5 +102.5°F	0.1	Total	305
32C	121C	Kinematic Viscosity	98.6 +101.4°C	0.05	Total	305
32F	30F	Kinematic Viscosity	207.5 +212.5°F	0.1	Total	305
33C	128C	Kinematic Viscosity	-1.4 +1.4°C	0.05	Total	305
33F	128F	Kinematic Viscosity	29.5 +34.5°F	0.1	Total	305
34C	29C	Kinematic Viscosity	52.6 +55.4°C	0.05	Total	305
34F	29F	Kinematic Viscosity	127.5 +132.5°F	0.1	Total	305
35C	47C	Kinematic Viscosity	58.6 +61.4°C	0.05	Total	305
35F	47F	Kinematic Viscosity	137.5 +142.5°F	0.1	Total	305
36C	129C	Kinematic Viscosity	91.6 +94.4°C	0.05	Total	305
36F	129F	Kinematic Viscosity	197.5 +202.5°F	0.1	Total	305
37C	-	Sludge	144 +156°C	0.2	100	270
38C	-	Penetration	23 +27°C	0.1	Total	260
39C	-	Density	-1 -38°C	0.1	Total	440
39F	-	Relative Density	30 +100°F	0.2	Total	440
40C	-	Drop Point Low	20 +120°C	1	100	250
41C	-	Drop Point Low	30 +100°F	1	100	250
42C	-	Breaking Point	20 +120°C	0.5	250	370
43C	-	FP Cut-Back (Int)	10 +110°C	0.5	-	305
43F	-	FP Cut-Back (Int)	50 +230°F	1	-	305
44C	-	FP Cut-Back (Ext)	15 +121°C	0.5	-	305
44F	-	FP Cut-Back (Ext)	60 +250°F	1	-	305
45C	-	Refractometer	15 +30°C	0.2	22	160
46C	-	Gravity Balance	14.5 +21°C	0.1	Total	160
46F	-	Gravity Balance	58° +70°F	0.2	Total	160
47C	13C	Loss on Heating	115 +170°C	0.5	Total	155
48C	-	Tank Low	-38 +30°C	0.5	Total	310
49C	-	Tank Medium	-15 +40°C	0.5	Total	310
50C	-	Tank High	10 +65°C	0.5	Total	310
51C	-	Tank Heated Fuel	35 +120°C	0.5	Total	310
52C	-	Tank Bitumen	90 +260°C	1	Total	310
53C	-	Tank Cargo	0 +80°C	0.5	Total	310
59C	35C	High Aniline Point	90 +170°C	0.2	50	420
60C	15C	Low Softening Point	-2 +80°C	0.2	Total	395
61C	16C	High Softening Point	30 +200°C	0.5	Total	395
62C	2C	Partial Immersion	-5 +300°C	1	76	390
62F	2F	Partial Immersion	20 +580°F	2	76	390
63C	61C	Petrolatum Melting Point	32 +127°C	0.2	79	380
64C	12C	Density-Wide Range	-20 +102°C	0.2	Total	420
64F	12F	Density-Wide Range	-5 +215°F	0.5	Total	420
65C	-	Kinematic Viscosity Low	51.6 -34°C	0.1	Total	420
65F	43F	Kinematic Viscosity	-61 -29°F	0.2	Total	420
66C	46C	Kinematic Viscosity	48.6 +51.4°C	0.05	Total	305
66F	46F	Kinematic Viscosity	119.5 +124.5°F	0.1	Total	305
67C	72C	Kinematic Viscosity	19.4 -16.6°C	0.05	Total	305
67F	72F	Kinematic Viscosity	-2.5 +2.5°F	0.1	Total	305
68C	73C	Kinematic Viscosity	41.4 -38.6°C	0.05	Total	305
68F	73F	Kinematic Viscosity	42.5 -37.5°F	0.1	Total	305
69C	74C	Kinematic Viscosity	55.4 -52.6°C	0.05	Total	305
69F	74F	Kinematic Viscosity	67.5 -62.5°F	0.1	Total	305
71C	126C	Kinematic Viscosity	27.4 -24.6°C	0.05	Total	305
71F	126F	Kinematic Viscosity	17.5 -12.5°F	0.1	Total	305
72C	71C	Oil in Wax	-37 +21°C	0.5	76	355
72F	71F	Oil in Wax	-35 +70°F	1	76	355
73C	3C	Partial Immersion	-5 +400°C	1	76	415
73F	3F	Partial Immersion	20 +760°F	2	76	415
74C	-	Abel Oil Cup Wide Range	-35 +70°C	0.5	61	310
74F	-	Abel Oil Cup Wide Range	-35 +160°F	1	61	310
75C	-	Abel Water Bath Wide Range	-30 +80°C	0.5	89	310
75F	-	Abel Water Bath Wide Range	-25° +180°F	1	89	310
76C	-	Engler Viscosity	10 +55°C	0.5	93	240
77C	37C	Solvents Distillation	-2 +52°C	0.2	100	395
78C	38C	Solvents Distillation	24 +78°C	0.2	100	395
79C	39C	Solvents Distillation	48 +102°C	0.2	100	395
80C	40C	Solvents Distillation	72 +126°C	0.2	100	395
81C	41C	Solvents Distillation	98 +152°C	0.2	100	395
82C	42C	Solvents Distillation	95 +255°C	0.5	100	395
83C	102C	Solvents Distillation	123 +177°C	0.2	100	395
84C	103C	Solvents Distillation	148 +202°C	0.2	100	395
85C	104C	Solvents Distillation	173 +227°C	0.2	100	395
86C	105C	Solvents Distillation	198 +252°C	0.2	100	395
87C	106C	Solvents Distillation	223 +277°C	0.2	100	395
88C	107C	Solvents Distillation	248 +302°C	0.2	100	395
89C	113C	Softening Point Wide Range	-1 +175°C	0.5	Total	405
89F	113F	Softening Point Wide Range	30 +350°F	1	Total	405
90C	48C	Kinematic Viscosity	80.6 +83.4°C	0.05	Total	305
90F	48F	Kinematic Viscosity	177.5 +182.5°F	0.1	Total	305
92C	120C	Kinematic Viscosity	38.6 +41.4°C	0.05	Total	305
93C	110C	Kinematic Viscosity	133.6 +136.4°C	0.05	Total	305
94C	122C	Brookfield Viscosity	-45 -35°C	0.1	Total	305
95C	123C	Brookfield Viscosity	-35 -25°C	0.1	Total	305
96C	124C	Brookfield Viscosity	-25 -15°C	0.1	Total	305
97C	125C	Brookfield Viscosity	-15 -5°C	0.1	Total	305
99C	127C	Kinematic Viscosity	21.4 -18.6°C	0.05	Total	305
100C	-	Kinematic Viscosity	78.6 81.4°C	0.05	Total	305
101C	-	Medium Pensky Martens	20 +150°C	1	57	290