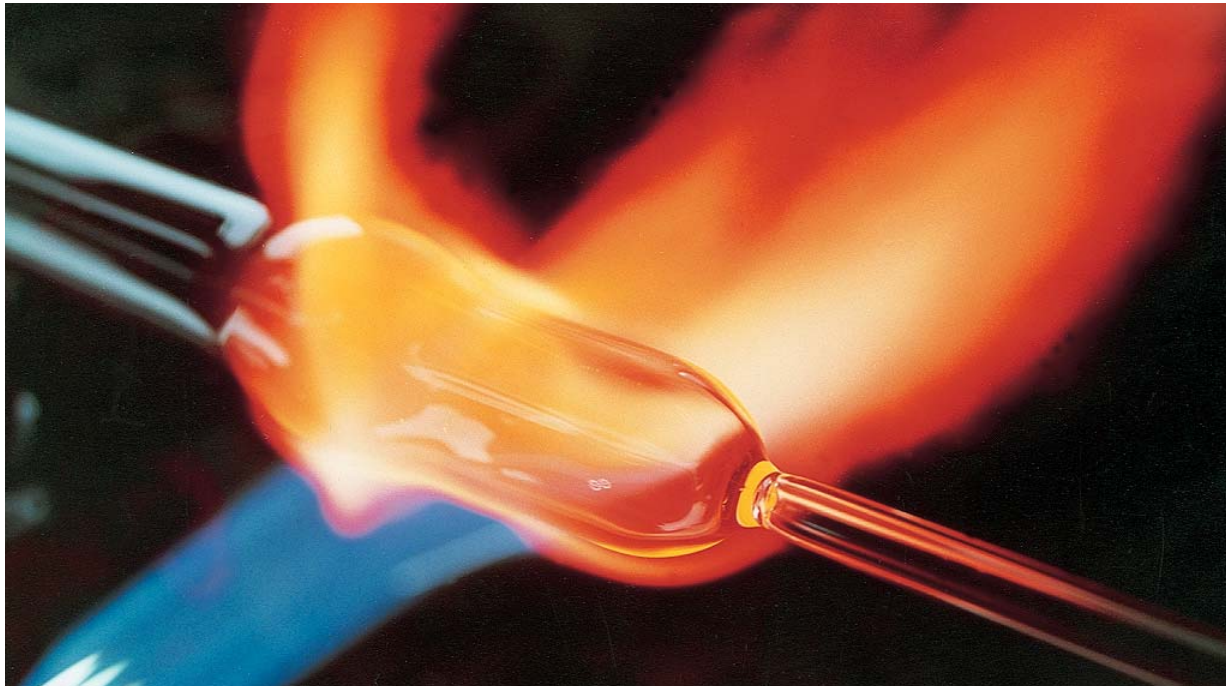


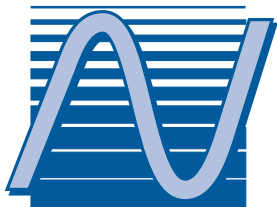
N O R M A L A B A N A L I S

A SURVEY OF OUR KNOW-HOW :



PETROLEUM GLASSWARE

VISCOMETER TUBES



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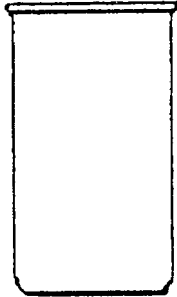
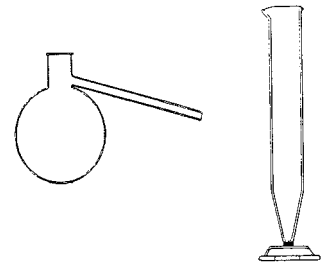
PETROLEUM GLASSWARE

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ASTM D 20 - D 402 - AFNOR T66003 - IP 27

REFERENCE	NOMENCLATURE
19378	500 ml Flask
11174	Receiver 100 ml

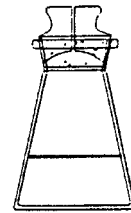


ASTM D 36 - EN 1427 - ISO 4625

REFERENCE	NOMENCLATURE
17487	Standardized beaker for manual or automatic softening point apparatus

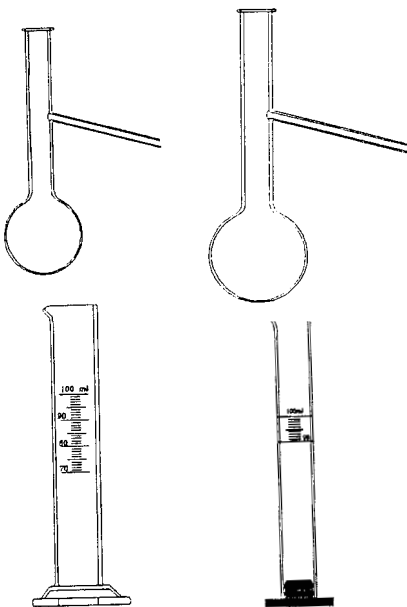
ASTM D 70 - ISO 3838 - IP 190

REFERENCE	NOMENCLATURE
20847	Density bottle A - 24/30 ml
24624	Density bottle B - 24/30 ml
23229	Density bottle C - 24/30 ml
23230	Density bottle D - 24/30 ml



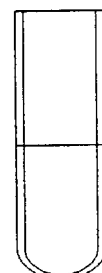
**ASTM D 86 - D 1078 - E 133 - EN ISO 3405
IP 123 - IP 191 - DIN 51751**

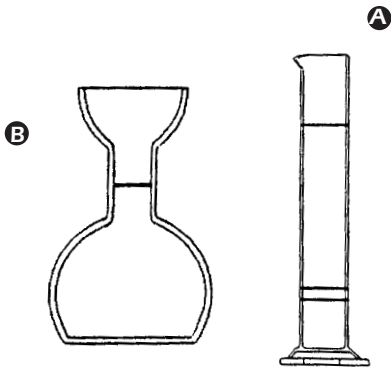
REFERENCE	NOMENCLATURE
19420	100 ml distillation flask
24019	125 ml distillation flask
19422	200 ml distillation flask
19423	250 ml distillation flask
19425	Distillation receiver 100 ml
19426	Distillation receiver 200 ml
19429	Complete receiver 100 ml with metal foot for automatic distillation
26111	Distillation receiver 100 ml with glass foot
12919	Spare graduated glass tube
40052	125 ml distillation flask black bottom
40043	200 ml distillation flask black bottom
23375	125 ml distillation flask with shank and holed cork for probe
23376	200 ml distillation flask with shank and holed cork for probe
23378	Male/Female shank for condenser tube entry



ASTM D 87 - AFNOR T60114 - IP 55

REFERENCE	NOMENCLATURE
19361	Test tube



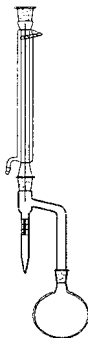
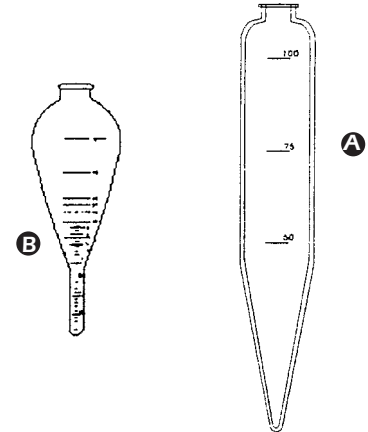


ASTM D 88 - D 224 - E 102

REFERENCE	NOMENCLATURE	
11438	Saybolt flask 60 ml	B
11175	Graduated cylinder 20-25-75 ml	A

ASTM D 91 - D 96 - D 893 - D 1796 - D 2709 - D 2711 - D 4007 AFNOR M07020 - T60156 - IP 75 - DIN 51793

REFERENCE	NOMENCLATURE	
19319	Cone-shaped tube 100 ml (203 mm)	A
19437	3 ml pear-shaped centrifuge tube 100 ml	B
19438	1,5 pear-shaped centrifuge tube 100 ml	

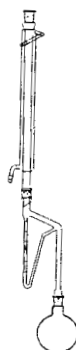
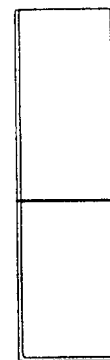


ASTM D 95 - AFNOR T60113 - IP 74 - ISO 3733

REFERENCE	NOMENCLATURE
12852	Round bottom flask CN 24/29 (500 ml)
13142	Liebig condenser CN 24/29 (400 mm)
19357	Dean stark trap (10 ml x 0,1 ml)
21456	25 ml : 1/5 dean stark with conical bottom

ASTM D 97 - D 2500 - ISO 3016 - IP 15

REFERENCE	NOMENCLATURE
19439	Test jar for manual apparatus
21146	Pour test tube for automatic apparatus
21147	Cloud test tube for automatic apparatus

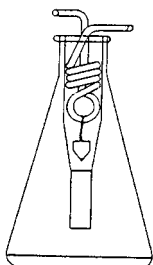


ASTM D 322 - IP 23 - DIN 51565

REFERENCE	NOMENCLATURE
12855	1000 ml flask - CN 24/29
13142	Réfrigérant Liebig 400 mm CN 24/29
17966	Piège gradué - CN 24/29

ASTM D 381 - ISO 6246 - IP 131 - DIN 51784

REFERENCE	NOMENCLATURE
16138	100 ml Beaker

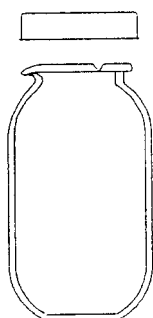
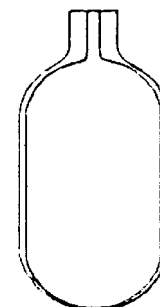


ASTM D 473 - ISO 3735 - IP 53 - DIN 51789

REFERENCE	NOMENCLATURE
14187	Glass conical flask 1 L
10763	Sintered cartridge made of alundun
10739	Glass water cup

ASTM D 524 - AFNOR T60117 - IP 14

REFERENCE	NOMENCLATURE
19365	Heat resistant glass coking bulb

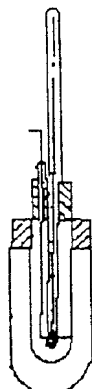


ASTM D 525 - ISO 7536 - M07013

REFERENCE	NOMENCLATURE
513513	Glass sample container with cover
513514	Cover for container

ASTM D 566 - D 2265 - AFNOR T60102

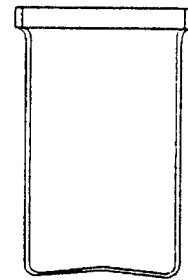
REFERENCE	NOMENCLATURE
19381	Test tube



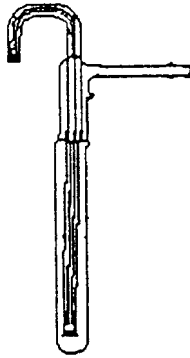
ASTM D 611 - AFNOR M07021 Méthode II

REFERENCE	NOMENCLATURE
12780	Test tube
19322	Jacket tube
10142	5 ml pipet
10143	10 ml pipet
513113	Manual stirrer

■ **ASTM D 665 - D 3603 - AFNOR T60151 - IP 135
DIN 51585**



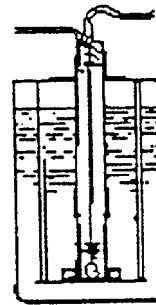
REFERENCE	NOMENCLATURE
26288	400 ml beaker



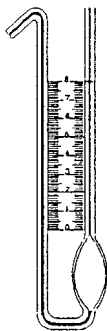
■ **ASTM D 721 - D 3235 - AFNOR T60120 - IP 158
DIN 51571-2**

REFERENCE	NOMENCLATURE
19367	Filter stick (24/24)
21001	Filter stick (35/20)

■ **ASTM D 892 - ISO 6247 - IP 146 - DIN 51566**



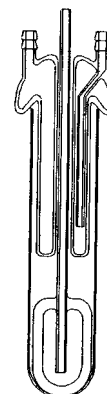
REFERENCE	NOMENCLATURE
20740	Borosilicate glass jar
19369	1 L graduated cylinder for foam test
24795	Diffuser stone calibrated
24803	Stainless steel diffuser stone (without certificat)



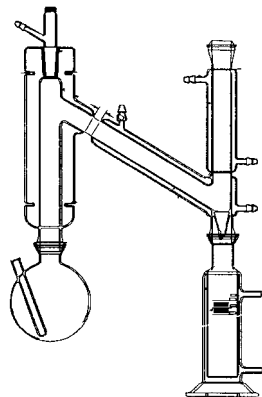
■ **ASTM D 941 - D 1481 - DIN 51757**

REFERENCE	NOMENCLATURE
19386	Lipkin pycnometer

■ **ASTM D 943 - D 2274 - D 4310- ISO 12205 - 4263
DIN 51587**



REFERENCE	NOMENCLATURE
19348	Glass condenser
19349	Oxygen inlet tube
19347	Oil test tube
21011	Iron / copper catalyst packed in glass tube

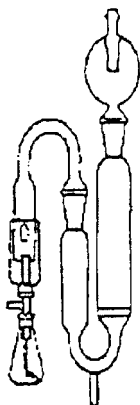


ASTM D 1160 - ISO 6616

REFERENCE	NOMENCLATURE
41612	Column with condenser
41609	Flask with thermowell
41611	Jacketed receiver
41613	Cold trap

ASTM D 1177 - AFNOR T78102

REFERENCE	NOMENCLATURE
23239	Dewar freezing tube (200 ml)

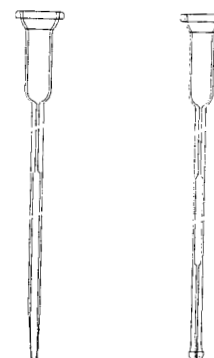


ASTM D 1266 - AFNOR M07031 - IP 107

REFERENCE	NOMENCLATURE
19334	25 ml flask (non aromatic products)
19336	25 ml flask (aromatic products)
19332	Burner for non-aromatic samples
19335	Burner for aromatic samples
19331	Chimney
19330	Absorber
19333	Spray trap

**ASTM D 1319 - ISO 3837 - IP 156
DIN 51791**

REFERENCE	NOMENCLATURE
19325	FIA true bore column - 1/100 mm precision
19572	Upper S28/12 ground joint for accuracy column
19582	Low S12/2 ground joint for accuracy column
21700	Upper part of standard column
21701	Analyser part of standard column (pack of 25)



ASTM D 1401 - AFNOR T60125 - ISO 6614

REFERENCE	NOMENCLATURE
11470	Glass graduated cylinder (100 ml)

**ASTM D 1500 - ISO 2049 - IP 196
DIN 51578**



REFERENCE	NOMENCLATURE
19353	Standard glass sample tube

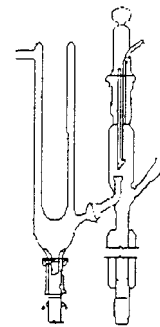


ASTM D 1837 - D 2158 - AFNOR M41012 - IP 317

REFERENCE	NOMENCLATURE
19350	100 ml weathering receiver

ASTM D 2001

REFERENCE	NOMENCLATURE
19398	Depentanization apparatus

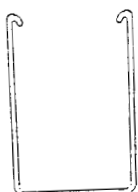


ASTM D 2002

REFERENCE	NOMENCLATURE
19399	Complete adsorption column for low olefinic concentration

ASTM D 2003

REFERENCE	NOMENCLATURE
19400	High efficiency column
13603	Spherical ground joint with nipple

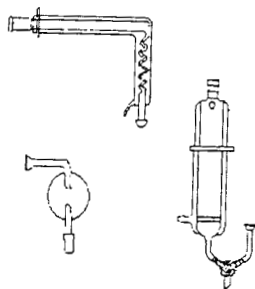


ASTM D 2272 - IP 229

REFERENCE	NOMENCLATURE
21338	Borosilicate glass sample container
21339	Copper catalyst packed in a plastic container with drying stopper

ASTM D 2273

REFERENCE	NOMENCLATURE
19435	100 ml trace sediment tube



ASTM D 2384 - D 2784 - NF EN 24260 - ISO 4260

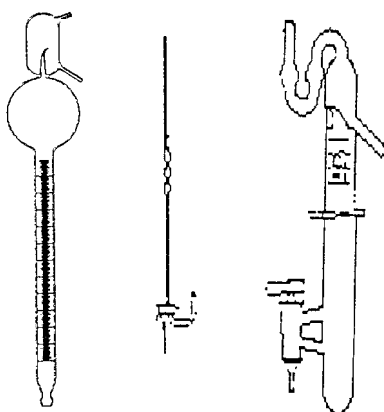
REFERENCE	NOMENCLATURE
20928	Quartz combustion chamber
20983	Absorber with fritted plate
20984	Trap

ASTM D 2386 - ISO 3013 - IP 16 DIN 51421

REFERENCE	NOMENCLATURE
513462	Jacketed sample tube (double walls)
513466	Unsilvered dewar flask



ASTM D 2699 - D 2700 - ISO 5163 - ISO 5164 EN 25163 - EN 25164



REFERENCE	NOMENCLATURE
	Burettes for reference fluids :
19358	100 ml buret without bulb nor stopcock
20935	200 ml buret without bulb nor stopcock
19329	200 ml buret with bulb without stopcock
20936	400 ml buret with bulb without stopcock
19434	Buret 400 ml automatic filling with stopcock, graduations in % each 0,5 % and in ml (each 2 ml)
19326	3 ml buret for measuring dilute tetraethyllead
19327	4 ml buret for measuring dilute tetraethyllead

ASTM D 2872

REFERENCE	NOMENCLATURE
23680	Borosilicate glass sample container for RTFOT test





AFNOR M07039 - EN 13 - EN 41 - IP 96

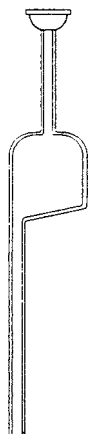
REFERENCE	NOMENCLATURE
19312	500 ml complete flask without CN
19313	500 ml complete flask with CN 29
12923	Protective glass tube
513312	500 ml flask with electric heating resistance and cock, with RIN 29/32
513314	Reflux condenser with RIN 29/32
513315	Separating funnel with RIN 29/32

AFNOR T60115 - IP 143 - DIN 51595

CAT N°	NOMENCLATURE
23883	500 ml conical flask with ground joint (24/29)
23884	Reflux extractor (CN 24 / CN 34)
19364	Condenser
21918	500 ml conical flask with ground joint (29/34)
21919	Reflux extractor (CN 29 / CN 34)



IP 309 - AFNOR M07042 - EN 116



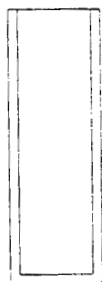
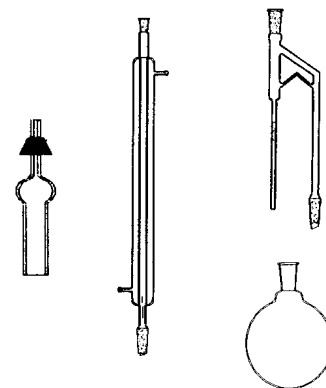
CAT N°	NOMENCLATURE
23231	Pipette for manual method without spherical joint
20881	Pipette for manual method with Spherical joint
17881	Pipette for automatic method without spherical joint
21916	Pipette for automatic method with spherical joint
20942	Supply connection with S joint
17885	CEN test tube CFPP

EN 1428

CAT N°	NOMENCLATURE
12853	500 ml round bottom flask, 29/32 ground joint
20357	25 ml : 1/10 dean stark, 29/32 ground joint
13143	Condenser, effective length 400 mm 29/32 ground joint

ASTM D 4006

CAT N°	NOMENCLATURE
21183	Dessicant tube
21182	Liebig CN 24
21184	Dean-stark CN 24
21185	1 L flask, joint 24/40

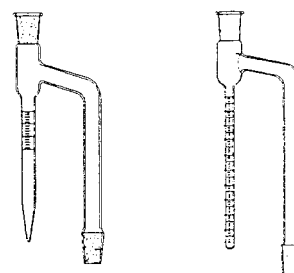


ASTM D 4530 - ISO 10370

CAT N°	NOMENCLATURE
41001	2 ml borosilicate glass crucible
41002	16 ml borosilicate glass crucible
41003	2 ml quartz crucible
41004	16 ml quartz crucible

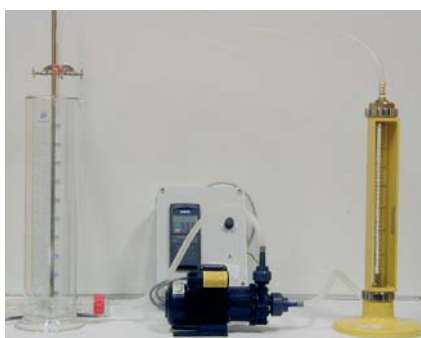
ASTM E 123 - NFT 60113

CAT N°	NOMENCLATURE
19418	Dean-stark 5 ml - CN 24/40
19419	Dean-stark 10 ml - CN 24/40
19357	Dean-stark 10 ml with conical bottom CN 24/29



NFT 60185

CAT N°	NOMENCLATURE
23351	<p>CNOMO TEST Foaming tendency of aqueous cutting fluids</p> <ul style="list-style-type: none"> - Silicone tube (2 m) (cat. n° 14094) - Small three-pronged clamp made of laboral alloy (cat. n° 16254) - Stand with rod diameter 12 mm x 800 mm length (cat. n° 16324) - Universal boss (cat. n° 16329) - Jacketed cylinder 2000 ml (cat. n° 23340) - Upper tip for cylinder (cat. n° 23341) - Flowmeter 30-300 L/h for water or soluble oil having a density of 1,02 and a viscosity of 1 Cp, pyrex tube, stainless steel float with stand and fitting for rubber tube (cat. n° 23344) - Centrifuge pump type RM-PP-VKKK-5/35-30 (15) - 60 - 1 (cat. n° 27557) - Frequency variator for pump (cat. n° 27558)



VISCOMETER TUBES

■ INTRODUCTION

The following pages present the various types of viscometers we have been manufacturing for years in our workshop and our calibration laboratory

■ MANUFACTURING

Normalab Analis viscometers are made out of low-expanding DURAN 50 glass. The tubes are made with high accuracy capillaries ($\pm 0,01$ mm). Scores and figures are marked using computerized engraving or indelible process. The viscometer result less fragilit (less breakages due to score discontinuities).

The standard capillary viscometers are delivered without any engraved constant. This may be achieved on customer's special request when ordering.

■ CALIBRATION

2 options are available for most of our models :

A : Without certificate

These Normalab Analis viscometers are made of calibrated glass tubes. The mentioned constant (s) assume on approximate value for the coefficient of thermal expansion typical to that for hydrocarbons. The uncertainty of the mentioned constant is more than 0,2 %. An additional calibration with at least two viscosity oil standards is then to be conducted in your laboratory.

B-C : With calibration certificate

Normalab Analis viscometers are calibrated within our air conditioned laboratory using reference viscometers calibrated by the french National Testing Laboratory.

These viscometer tubes are checked at regular intervals by means of certified viscosity oil standards. Normalab Analis has been assessed and registered as meeting the requirements of ISO 9002 for laboratory and associated services of repair, calibration and verification of laboratories devices by SGS and the COFRAC.

VISCOMETER TUBES

CANNON FENSKE OPAQUE

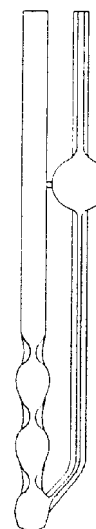
ASTM D 445 - D 2170 - IP 71 - ISO 3104 - 3105

For Opaque liquids

A - Without certificate

C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
25	0,002	0,3	1,6	12181	14016
50	0,004	0,8	3,2	12182	14017
75	0,008	1,6	6,4	12183	14018
100	0,015	3	12	12184	14019
150	0,035	7	28	12185	14020
200	0,1	20	80	12186	14021
300	0,25	50	200	12187	14022
350	0,5	100	400	12188	14023
400	1,2	240	960	12189	14024
450	2,5	500	2000	12190	14025
500	8	1600	6400	12191	14026
600	20	4000	16000	12192	14027
650	45	10000	40000	12193	14028
700	100	20000	80000	12194	14029



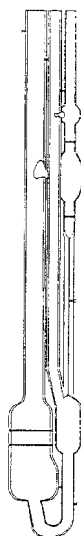
UBBELOHDE

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
0	0,001	0,3	1	13975	14030
0C	0,003	0,6	3	13976	14031
0B	0,005	1	5	13977	14032
0A	0,007/8	1,5	7	13978	14033
1	0,01	2	10	13979	14034
1C	0,03	6	30	13980	14035
1B	0,05	10	50	13981	14036
2	0,1	20	100	13982	14037
2C	0,3	60	300	13983	14038
2B	0,5	100	500	13984	14039
2A	0,7/0,8	150	750	13985	14040
3	1,0	200	1000	13986	14041
3C	3,0	600	3000	13987	14042
3B	5,0	1000	5000	13988	14043
4	10	2000	10000	13989	14044
4C	30	6000	30000	13990	14045
4B	50	10000	50000	13991	13993
5	100	20000	100000	13992	13994

VISCOMETER TUBES

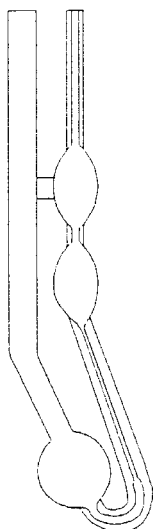
■ CANNON FENSKE ROUTINE

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
25	0,002	0,5	2	14046	14002
50	0,004	0,8	4	14047	14003
75	0,008	1,6	8	14048	14004
100	0,015	3	15	14049	14005
150	0,035	7	35	14050	14006
200	0,1	20	100	14051	14007
300	0,25	50	250	14052	14008
350	0,5	100	500	14053	14009
400	1,2	240	1200	14054	14010
450	2,5	500	2500	14055	14011
500	8	1600	8000	14056	14012
600	20	4000	20000	14057	14013
650	45	10000	40000	14058	14014
700	100	20000	80000	14059	14015

■ HOUILLON

For Transparent Liquids

C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	C REF.
50	0,016	0,8	3,2	13932
75	0,032	1,6	6,4	13933
100	0,06	3	12	13934
150	0,14	7	28	13935
200	0,4	20	80	13936
300	1	50	200	13937
350	2	100	400	13938
400	4,8	240	960	13939
450	10	500	2000	13940



VISCOMETER TUBES

■ CANNON MANNING VACUUM

ASTM D 2171
For bitumens

A - Without certificate
C - With calibration certificate



Size Code	Nominal Constant		Viscosity cSt		A REF.	C REF.
4	0,002	0,0006	0,036	0,8	18870	18892
5	0,006	0,002	0,12	2,4	18871	18893
6	0,02	0,006	0,36	8	18872	18894
7	0,06	0,02	1,2	24	18873	18895
8	0,2	0,06	3,6	80	18874	18896
9	0,6	0,2	12	240	18875	18897
10	20	0,6	36	800	18876	18898
11	60	20	120	2400	18877	18899
12	200	60	360	8000	18878	18900
13	600	200	1200	24000	18879	18901
14	2000	600	3600	80000	18880	18902

■ BS / IP SL

ASTM D 445 - IP 71 - ISO 3104 - 3105
For Transparent Liquids

A - Without certificate
C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
1	0,01	3,5	10	19265	19283
1A	0,03	6	30	19266	19284
2	0,1	20	100	19267	19285
2A	0,3	60	300	19268	19286
3	1,0	200	1000	19269	19287
3A	3,0	600	3000	19270	19288
4	10,0	2000	10000	19271	19289
4A	30,0	6000	30000	19272	19290
5	100,0	20000	100000	19273	19291



VISCOMETER TUBES

■ BS / IP U RF

ASTM D 445 - D 2170 - IP 71 - ISO 3104 - 3105

For Opaque Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
1	0,003	0,6	3	18648	18670
2	0,01	2	10	18649	18671
3	0,03	6	30	18650	18672
4	0,1	20	100	18651	18673
5	0,3	60	300	18652	18674
6	1,0	200	1000	18653	18675
7	3,0	600	3000	18654	18676
8	10,0	2000	10000	18655	18677
9	30,0	6000	30000	18656	18678
10	100,0	20000	100000	18657	18679
11	300,0	60000	300000	18658	18680

■ S.I.L.

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
0C	0,003	0,6	3	19623	19631
1	0,01	2	10	19624	19632
1C	0,03	6	30	19625	19497
2	0,1	20	100	19626	19498
2C	0,3	60	300	19627	19499
3	1	200	1000	19628	19500
3C	3	600	3000	19629	19501
4	10	2000	10000	19630	19502



VISCOMETER TUBES

BAUME VIGNERON

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Viscosity	cSt	A REF.	C REF.
	0,63	14719	14740
	1	14720	14741
	1,6	14721	14742
	2,5	14722	14743
	4	14723	14744
	6,3	14724	14745
	10	14725	14746
	16	14726	14747
	25	14727	14748
	40	14728	14749
	63	14729	14750
	100	14730	14751
	160	14731	14752
	250	14732	14753
	400	14733	14754
	630	14734	14755
	1000	14735	14756
	1600	14736	14757
	2500	14737	14758
	4000	14738	14759
	6300	14739	14760

CANNON UBBELOHDE

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids without washer connection

A - Without certificate

B - With calibration certificate

Size Code	Nominal Constant	A REF.	B REF.
0C	0,003	11179	15253
0A	0,005	11180	15255
1	0,01	11181	15256
1C	0,03	11182	15257
2	0,1	11183	15259
2C	0,3	11184	15260
3	1	11185	15263
3C	3	11186	15264
4	10	11187	15266



VISCOMETER TUBES

■ CANNON UBBELOHDE

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids with washer connection

A - Without certificate

B - With calibration certificate



Size Code	Nominal Constant	A REF.	B REF.
0C	0,003	22874	22883
0A	0,005	22873	22882
1	0,01	22875	22884
1C	0,03	22876	22885
2	0,1	22877	22886
2C	0,3	22878	22887
3	1	22879	22888
3C	3	22880	22889
4	10	22881	22890

■ CANNON MANNING SEMI - MICRO

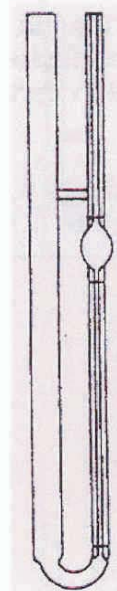
ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
25	0,002	0,4	2	18801	18825
50	0,004	0,8	4	18802	18826
75	0,008	1,6	8	18803	18827
100	0,015	3	15	18804	18828
150	0,035	7	35	18805	18829
200	0,1	20	100	18806	18830
300	0,25	50	250	18807	18831
350	0,5	100	500	18808	18832
400	1,2	240	1200	18809	18833
450	2,5	500	2500	18810	18834
500	8	1600	8000	18811	18835
600	20	4000	20000	18812	18836



VISCOMETER TUBES

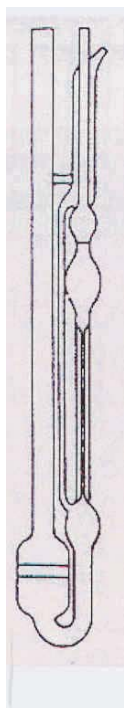
■ CANNON UBBELOHDE DILUTION

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
25	0,002	0,5	2	18723	18751
50	0,004	0,8	4	18724	18752
75	0,008	1,6	8	18725	18753
100	0,015	3	15	18726	18754
150	0,035	7	35	18727	18755
200	0,1	20	100	18728	18756
300	0,25	50	250	18729	18757
350	0,5	100	500	18730	18758
400	1,2	240	1200	18731	18759
450	2,5	500	2500	18732	18760
500	8	1600	8000	18733	18761
600	20	4000	20000	18734	18762
650	45	9000	45000	18735	18763
700	100	20000	100000	18736	18764

■ CANNON UBBELOHDE SEMI-MICRO

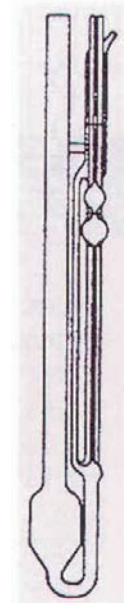
ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate

Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
25	0,002	0,4	2	18765	18789
50	0,004	0,8	4	18766	18790
75	0,008	1,6	8	18767	18791
100	0,015	3	15	18768	18792
150	0,035	7	35	18769	18793
200	0,1	20	100	18770	18794
300	0,25	50	250	18771	18795
350	0,5	100	500	18772	18796
400	1,2	240	1200	18773	18797
450	2,5	500	2500	18774	18798
500	8	1600	8000	18775	18799
600	20	4000	20000	18776	18800



VISCOMETER TUBES

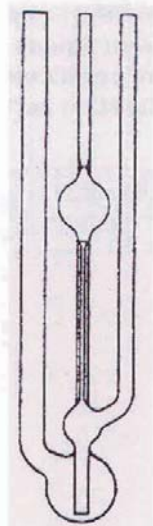
■ BS / IP SL - S

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
1	0,0008	1,05	mini	18600	18618
2	0,003	2,1	3	18601	18619
3	0,01	3,8	10	18602	18620
4	0,03	6	30	18603	18621
5	0,1	20	100	18604	18622
6	0,3	60	300	18605	18623
7	1	200	1000	18606	18624
8	3	600	3000	18607	18625
9	10	2000	10000	18608	18626

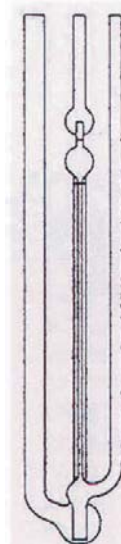
■ BS / IP SL - MSL MICRO UBBELOHDE

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
1	0,003	0,6	3	18627	18641
2	0,01	2	10	18628	18642
3	0,03	6	30	18629	18643
4	0,1	20	100	18630	18644
5	0,3	60	300	18631	18645
6	1	200	1000	18632	18646
7	3	600	3000	18633	18647

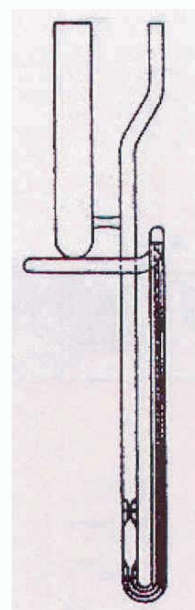
■ ZEITFUCHS

ASTM D 445 - IP 71 - ISO 3104 - 3105

For Transparent and Opaque Liquids

A - Without certificate

C - With calibration certificate



Size Code	Nominal Constant	Viscosity	cSt	A REF.	C REF.
1	0,003	0,6	3	19633	19160
2	0,01	2	10	19634	19161
3	0,03	6	30	19635	19162
4	0,1	20	100	19636	19163
5	0,3	60	300	19637	19164
6	1	200	1000	19638	19165
7	3	600	3000	19639	19166
8	10	2000	10000	19640	19167
9	30	6000	30000	19641	19168
10	100	20000	100000	19642	19169

VISCOMETER TUBES

U. F.

For Transparent Liquids

A - Without certificate

C - With calibration certificate



Viscosity	cSt	A REF.	C REF.
	0,63	14761	13755
	1	14762	13756
	1,6	14763	13757
	2,5	14764	13758
	4	14765	13759
	6,3	14766	13760
	10	14767	13761
	16	14768	13762
	25	14769	13763
	40	14770	13764
	63	14771	13765
	100	14772	13766
	160	14773	13767
	250	14774	13768
	400	14775	13769
	630	14776	13770
	1000	14777	13771
	1600	14778	13772
	2500	14779	13773
	4000	14780	13774
	6300	14781	13775

ASTM D 445

REFERENCE	NOMENCLATURE
17915	Constant temperature viscosity bath «ROUTINE» (max. 100 °C) with glass jar of 20 liters, thermometer for temperature reading and 5 places for common viscometers (support not included)
23829	Constant temperature viscosity bath «ROUTINE» (max 200 °C) with glass jar of 20 liters, digital temperature display and 5 places for common viscometers (support not included)

