

VISCOMETER TUBES with calibration certificate

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UBBELOHDE VISCOMETER for transparent liquids

REF 14030	Size number 0	- Viscosity range from 0.3 to 1 cSt
REF 14031	Size number 0C	- Viscosity range from 0.6 to 3 cSt
REF 14032	Size number 0B	- Viscosity range from 1 to 5 cSt
REF 14034	Size number 1	- Viscosity range from 2 to 10 cSt
REF 14035	Size number 1C	- Viscosity range from 6 to 30 cSt
REF 14036	Size number 1B	- Viscosity range from 10 to 50 cSt
REF 14037	Size number 2	- Viscosity range from 20 to 100 cSt
REF 14038	Size number 2C	- Viscosity range from 60 to 300 cSt
REF 14039	Size number 2B	- Viscosity range from 100 to 500 cSt
REF 14041	Size number 3	- Viscosity range from 200 to 1000 cSt
REF 14042	Size number 3C	- Viscosity range from 600 to 3000 cSt
REF 14043	Size number 3B	- Viscosity range from 1000 to 5000 cSt
REF 14044	Size number 4	- Viscosity range from 2000 to 10000 cSt
REF 14045	Size number 4C	- Viscosity range from 6000 to 30000 cSt
REF 13993	Size number 4B	- Viscosity range from 10000 to 50000 cSt
REF 13994	Size number 5	- Viscosity range from 20000 to 100000 cSt



CANNON-FENSKE ROUTINE VISCOMETER for transparent liquids

REF 14002	Size number 25	- Viscosity range from 0.4 to 2 cSt
REF 14003	Size number 50	- Viscosity range from 0.8 to 4 cSt
REF 14004	Size number 75	- Viscosity range from 1.6 to 8 cSt
REF 14005	Size number 100	- Viscosity range from 3 to 15 cSt
REF 14006	Size number 150	- Viscosity range from 7 to 35 cSt
REF 14007	Size number 200	- Viscosity range from 20 to 100 cSt
REF 14008	Size number 300	- Viscosity range from 50 to 200 cSt
REF 14009	Size number 350	- Viscosity range from 100 to 500 cSt
REF 14010	Size number 400	- Viscosity range from 240 to 1200 cSt
REF 14011	Size number 450	- Viscosity range from 500 to 2500 cSt
REF 14012	Size number 500	- Viscosity range from 1600 to 8000 cSt
REF 14013	Size number 600	- Viscosity range from 4000 to 20000 cSt
REF 14014	Size number 650	- Viscosity range from 10000 to 40000 cSt
REF 14015	Size number 700	- Viscosity range from 20000 to 80000 cSt



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CANNON-FENSKE VISCOMETER REVERSE FLOW TYPE for opaque liquids

REF 14016	Size number 25	- Viscosity range from 0.4 to 2 cSt
REF 14017	Size number 50	- Viscosity range from 0.8 to 4 cSt
REF 14018	Size number 75	- Viscosity range from 1.6 to 8 cSt
REF 14019	Size number 100	- Viscosity range from 3 to 15 cSt
REF 14020	Size number 150	- Viscosity range from 7 to 35 cSt
REF 14021	Size number 200	- Viscosity range from 20 to 100 cSt
REF 14022	Size number 300	- Viscosity range from 50 to 200 cSt
REF 14023	Size number 350	- Viscosity range from 100 to 500 cSt
REF 14024	Size number 400	- Viscosity range from 240 to 1200 cSt
REF 14025	Size number 450	- Viscosity range from 500 to 2500 cSt
REF 14026	Size number 500	- Viscosity range from 1600 to 8000 cSt
REF 14027	Size number 600	- Viscosity range from 4000 to 20000 cSt
REF 14028	Size number 650	- Viscosity range from 10000 to 40000 cSt
REF 14029	Size number 700	- Viscosity range from 20000 to 80000 cSt



BS/IP U RF VISCOMETER for opaque liquids

REF 18670	Size number 1	- Viscosity range from 0.6 to 3 cSt
REF 18671	Size number 2	- Viscosity range from 2 to 10 cSt
REF 18672	Size number 3	- Viscosity range from 6 to 30 cSt
REF 18673	Size number 4	- Viscosity range from 20 to 100 cSt
REF 18674	Size number 5	- Viscosity range from 60 to 300 cSt
REF 18675	Size number 6	- Viscosity range from 200 to 1000 cSt
REF 18676	Size number 7	- Viscosity range from 600 to 3000 cSt
REF 18677	Size number 8	- Viscosity range from 2000 to 10000 cSt
REF 18678	Size number 9	- Viscosity range from 6000 to 30000 cSt
REF 18679	Size number 10	- Viscosity range from 20000 to 100000 cSt
REF 18680	Size number 11	- Viscosity range from 60000 to 300000 cSt



HOUILLON VISCOMETER for transparent liquids

REF 13932	Viscosity range at 3.2 cSt
REF 13933	Viscosity range at 6.4 cSt
REF 13934	Viscosity range at 12 cSt
REF 13935	Viscosity range at 28 cSt
REF 13936	Viscosity range at 80 cSt
REF 13937	Viscosity range at 200 cSt
REF 13938	Viscosity range at 400 cSt
REF 13939	Viscosity range at 960 cSt
REF 13940	Viscosity range at 2000 cSt



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BS/IP SL VISCOMETER for transparent liquids

REF 19283 Viscosity range at 10 cSt
REF 19284 Viscosity range at 30cSt
REF 19285 Viscosity range at 100 cSt
REF 19286 Viscosity range at 300 cSt
REF 19287 Viscosity range at 1000 cSt
REF 19288 Viscosity range at 3000 cSt
REF 18289 Viscosity range at 10000 cSt
REF 19290 Viscosity range at 30000 cSt
REF 19291 Viscosity range at 100000 cSt



S.I.L. VISCOMETER for transparent liquids

REF 19631 Viscosity range at 3 cSt
REF 19632 Viscosity range at 10cSt
REF 19497 Viscosity range at 30 cSt
REF 19498 Viscosity range at 100 cSt
REF 19499 Viscosity range at 300 cSt
REF 19500 Viscosity range at 1000 cSt
REF 19501 Viscosity range at 3000 cSt
REF 19502 Viscosity range at 10000 cSt



BAUME VIGNERON VISCOMETER for transparent liquids

REF 14740 Viscosity range at 0.63 cSt
REF 14741 Viscosity range at 1 cSt
REF 14742 Viscosity range at 1.6 cSt
REF 14743 Viscosity range at 2.5 cSt
REF 14744 Viscosity range at 4 cSt
REF 14745 Viscosity range at 6.3 cSt
REF 14746 Viscosity range at 10 cSt
REF 14747 Viscosity range at 15 cSt
REF 14748 Viscosity range at 25 cSt
REF 14748 Viscosity range at 40 cSt
REF 14750 Viscosity range at 63 cSt
REF 14751 Viscosity range at 100 cSt
REF 14752 Viscosity range at 180 cSt
REF 14753 Viscosity range at 250 cSt
REF 14754 Viscosity range at 400 cSt
REF 14755 Viscosity range at 630 cSt
REF 14756 Viscosity range at 1000 cSt
REF 14757 Viscosity range at 1600 cSt
REF 14758 Viscosity range at 2500 cSt
REF 14759 Viscosity range at 4000 cSt
REF 14760 Viscosity range at 6300 cSt



CANNON MANNING VACUUM VISCOMETER for bitumen

REF 18892 Viscosity range at 0.8 cSt
REF 18893 Viscosity range at 2.4 cSt
REF 18894 Viscosity range at 8 cSt
REF 18895 Viscosity range at 24 cSt
REF 18896 Viscosity range at 80 cSt
REF 18897 Viscosity range at 240 cSt
REF 18898 Viscosity range at 800 cSt
REF 18899 Viscosity range at 2400 cSt
REF 18900 Viscosity range at 8000 cSt
REF 18901 Viscosity range at 24000 cSt
REF 18902 Viscosity range at 80 000 cSt



VISCOMETER TUBES FOR AUTOMATIC VISCOMETER

CANNON UBBELOHDE VISCOMETER for transparent liquids without connection to the washer

REF 15253 0.003 (approx. constant)
REF 15255 0.005 (approx. constant)
REF 15256 0.01 (approx. constant)
REF 15257 0.03 (approx. constant)
REF 15259 0.1 (approx. constant)
REF 15260 0.3 (approx. constant)
REF 15263 1 (approx. constant)
REF 15264 3 (approx. constant)
REF 15266 10 (approx. constant)



NORMALAB ANALIS

Fabrication de verrerie et instruments de tests pétroliers
Distribution de consommables et instruments de laboratoire

CERTIFICAT D'ÉTALONNAGE USINE
WORK CERTIFICATE OF CALIBRATION
N° (Nb) : 02 057 / 04

VISCOSIMÈTRE (VISCOMETER)

Type : **UBBELOHDE**

Série : **2**
Size

N° de série : **G 724**
Serial Nb

Constante **C** en $\text{mm}^2 \cdot \text{s}^{-2}$
Constant **C** in $\text{mm}^2 \cdot \text{s}^{-2}$

C = 0,09569

La constante d'étalonnage est indépendante de la température

Pour calculer la viscosité V ($\text{mm}^2 \cdot \text{s}^{-1}$), multiplier le temps d'écoulement t (secondes) par la constante **C** du viscosimètre :

The kinematic viscosity V ($\text{mm}^2 \cdot \text{s}^{-1}$) of a liquid may be calculated from the elapsed flowtime t (seconds) using the formula :

$$V = C t$$

L'étalonnage de ce viscosimètre a été effectué à l'aide d'un instrument de référence étalonné par le Laboratoire National d'Essais et conformément aux normes ISO 3105, ASTM D 446, BS 188, IP 71. La base de l'étalonnage des viscosimètres est la valeur de la viscosité de l'eau adoptée par le NBS, l'ASTM et l'AFNOR, soit $1,0034 \text{ mm}^2 \cdot \text{s}^{-1}$ à 20°C . L'accélération de la pesanteur g est $9,8102 \text{ m/s}^2$ au lieu d'étalonnage. L'incertitude sur la constante est inférieure à 0,4 %. La procédure, le suivi des instruments et produits utilisés, peuvent être consultés en nos locaux.

This viscometer has been calibrated in accordance with ISO 3105, NF T 60 100, ASTM D446, BS 188, IP 71, against primary standard viscometer traceable to international standards. Kinematic viscosity is based on the value for water adopted by AFNOR, ASTM, NBS. The viscosity basis is $1.0034 \text{ mm}^2 \cdot \text{s}^{-1}$ at 20°C . The gravitational constant g is 9.8102 m/s^2 at place of calibration. The uncertainty of constant is less than 0.4 %. The procedure and the regular control of the instruments and products used can be consulted in our office.

Étalonné par : **CAG**
Calibrated by
26/02/2002

LE VILLAGE : F 76210 LESTOF
RC : Le Havre : 88 B 160

Devis : 33(0)2 35 38 20 80
Export : 20 69

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Commandes : 33(0)2 35 38 20 76
Comptabilité : 20 74

Société Anonyme au capital de 4.465.000 F
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Service Après-Vente : 20 64