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Вискозиметры Фенске CANNON

Техническое описание



Asphalt Institute Vacuum Viscometer (Reversed Flow)

The Asphalt Institute Vacuum Viscometer measures the viscosity of highly viscous materials according to ASTM D2171. Minimum sample volume is 3 mL. Minimum bath depth is 180 mm (7.1 in). Viscometers are provided with a certificate of calibration and instruction sheet. Permanently attached round metal holders are included or may be ordered separately.

Asphalt Institute Vacuum Viscometers

Catalog Number		Size	Approximate Constant (poise/sec at 300 mm Hg)			Viscosity Range (poise)	
without holder	with holder†		Bulb B	Bulb C	Bulb D	Low	High
9724-R50	9724-T50	25	2.0	1.0	0.7	42	800
9724-R55	9724-T55	50	8.0	4.0	3.0	180	3200
9724-R60	9724-T60	100	32	16	10	600	12800
9724-R65	9724-T65	200	128	64	40	2400	52000
9724-R70	9724-T70	400R	500	250	160	9600	1400000
9724-R75	9724-T75	800R	2000	1000	640	38000	5800000

† Round holder is compatible with a 51 mm (2 in) diameter port

BS/IP/MSL Miniature Suspended Level Viscometer

The BS/IP/MSL Miniature Suspended Level Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 4 mL. Minimum bath depth is 305 mm (12 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are sold separately.

300,70 USD

BS/IP/MSL Miniature Suspended Level Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)	
			Low	High
9724-G10	1	0.003	0.6	3.0
9724-G13	2	0.01	2.0	10
9724-G16	3	0.03	6.0	30
9724-G19	4	0.1	20	100
9724-G22	5	0.3	60	300
9724-G25	6	1.0	200	1000
9724-G28	7	3.0	600	3000

† Viscosity ranges in mm²/s represent flow times of 200 to 1000 seconds

BS/IP/RF U-Tube Reversed Flow Viscometer

The BS/IP/RF U-Tube Reversed Flow Viscometer measures kinematic viscosity of opaque Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 7 mL. Minimum bath depth is 280 mm (11 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are sold separately.

BS/IP/RF U-Tube Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)	
			Low	High
9724-G50	1	0.003	0.6	3.0
9724-G53	2	0.01	2.0	10
9724-G56	3	0.03	6.0	30
9724-G59	4	0.1	20	100

9724-G62	5	0.3	60	300
9724-G65	6	1.0	200	1000
9724-G68	7	3.0	600	3000
9724-G71	8	10	2000	10000
9724-G74	9	30	6000	30000
9724-G77	10	100	20000	100000
9724-G80	11	300	60000	300000

† Viscosity ranges in mm²/s represent flow times of 200 to 1000 seconds

BS/IP/SL Suspended Level Viscometer

The BS/IP/SL Suspended Level Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 11 mL. Minimum bath depth is 250 mm (10 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are sold separately.

BS/IP/SL Suspended Level Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)	
			Low	High
9724-F10	1	0.01	3.5	10
9724-F13	1A	0.03	6.0	30
9724-F16	2	0.1	20	100
9724-F19	2A	0.3	60	300
9724-F22	3	1.0	200	1000
9724-F25	3A	3.0	600	3000
9724-F28	4	10	2000	10000
9724-F31	4A	30	6000	30000
9724-F34	5	100	20000	100000

† Viscosity ranges in mm²/s represent flow times of 350 to 1000 seconds

BS/IP/SL(S) Suspended Level Viscometer

The BS/IP/SL(S) Suspended Level Short Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 10 mL. Minimum bath depth is 230 mm (9 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are sold separately.

BS/IP/SL(S) Short Suspended Level Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)	
			Low	High

9724-F50	1	0.0008	1.05	1.05
9724-F53	2	0.003	2.1	3.0
9724-F56	3	0.01	3.8	10
9724-F59	4	0.03	6.0	30
9724-F62	5	0.1	20	100
9724-F65	6	0.3	60	300
9724-F68	7	1.0	200	1000
9724-F71	8	3.0	600	3000
9724-F74	9	10.0	2000	10000

† Viscosity ranges in mm²/s represent a flow time of 1320 seconds (size 1),
600 to 1000 seconds (size 2), 380 to 1000 seconds (size 3)
and 200 to 1000 seconds for all other sizes

BS/U/M Miniature Viscometer (Transparent)

The BS/U/M Miniature U-Tube Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 2 mL. Minimum bath depth is 230 mm (9 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are not available.

BS/U/M Miniature U-Tube Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)	
			Low	High
9724-E80	M1	0.001	0.2	1.0
9724-E83	M2	0.005	1.0	5.0
9724-E86	M3	0.015	3.0	15
9724-E89	M4	0.04	8.0	40
9724-E92	M5	0.1	20	100

† Viscosity ranges in mm²/s represent flow times of 200 to 1000 seconds

BS/U-Tube Viscometer (Transparent)

The BS/U-Tube Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is 7 mL (size A-C); 12 mL (size D-F); 23 mL (size G-H). Minimum bath depth is 280 mm (11 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are available in sizes G & H only (H100).

BS/U-Tube Viscometers

Catalog Number	Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)†	
			Low	High
9724-E50	A	0.003	0.9	3.0

9724-E53	B	0.01	2.0	10
9724-E56	C	0.03	6.0	30
9724-E59	D	0.1	20	100
9724-E62	E	0.3	60	300
9724-E65	F	1.0	200	1000
9724-E68	G	3.0	600	3000
9724-E71	H	10.0	2000	10000

† Viscosity ranges in mm²/s represent flow times of 300 to 1000 seconds for size A
and 200 to 1000 seconds for all other sizes

CANNON-Manning Semi-Micro Extra Low Charge Viscometer

The Cannon-Manning Semi-Micro Extra Low Charge Viscometer measures kinematic viscosity of very small samples of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is ~0.5 mL (sizes 200 through 600 may require additional sample). Minimum bath depth is 230 mm (9 in). Both calibrated and uncalibrated viscometers are available. Calibrated viscometers include a certificate of calibration and instruction sheet. Holders are not available.

CANNON-Manning Semi-Micro Extra Low Viscometers

Catalog Number		Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)†	
Uncalibrated	Calibrated			Low	High
9722-C50	9722-D50	25	0.002	0.4	2.0
9722-C53	9722-D53	50	0.004	0.8	4.0
9722-C56	9722-D56	75	0.008	1.6	8.0
9722-C59	9722-D59	100	0.015	3.0	15
9722-C62	9722-D62	150	0.035	7.0	35
9722-C65	9722-D65	200	0.1	20	100
9722-C68	9722-D68	300	0.25	50	250
9722-C71	9722-D71	350	0.5	100	500
9722-C74	9722-D74	400	1.2	240	1200
9722-C77	9722-D77	450	2.5	500	2500
9722-C80	9722-D80	500	8.0	1600	8000
9722-C83	9722-D83	600	20	4000	20000

CANNON-Manning Semi-Micro Viscometer

The Cannon-Manning Semi-Micro Viscometer measures kinematic viscosity of small samples of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Minimum sample volume is ~1 mL (sizes 400 through 600 may require additional sample). Minimum bath depth is 200 mm (8 in). Both calibrated and uncalibrated viscometers are available. Calibrated viscometers include a certificate of calibration and instruction sheet. Holders are sold separately.

CANNON-Manning Semi-Micro Viscometers

Catalog Number		Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)†	
Uncalibrated	Calibrated			Low	High
9721-X50	9721-Y50	25	0.002	0.4	2.0
9721-X53	9721-Y53	50	0.004	0.8	4.0
9721-X56	9721-Y56	75	0.008	1.6	8.0
9721-X59	9721-Y59	100	0.015	3.0	15
9721-X62	9721-Y62	150	0.035	7.0	35
9721-X65	9721-Y65	200	0.1	20	100
9721-X68	9721-Y68	300	0.25	50	250
9721-X71	9721-Y71	350	0.5	100	500
9721-X74	9721-Y74	400	1.2	240	1200
9721-X77	9721-Y77	450	2.5	500	2500
9721-X80	9721-Y80	500	8.0	1600	8000
9721-X83	9721-Y83	600	20	4000	20000

† Viscosity ranges in mm²/s represent flow times of 250 to 1000 seconds for size 25
and 200 to 1000 seconds for all other sizes

CANNON-Manning Vacuum Viscometer (Reversed Flow)

The Cannon-Manning Vacuum Viscometer measures the viscosity of highly viscous materials according to ASTM D2171. Minimum sample volume is 6 mL. Minimum bath depth is 180 mm (7.1 in). Viscometers are provided with a certificate of calibration and instruction sheet. Permanently attached round metal holders are included or may be ordered separately.

Cannon-Manning Vacuum Viscometers

Catalog Number		Size	Approximate Constant (poise/sec at 300 mm Hg)		Viscosity Range (poise)	
without holder	with holder†		Bulb B	Bulb C	Low	High
9724-H50	9724-L50	4	0.002	0.0006	0.036	0.8
9724-H53	9724-L53	5	0.006	0.002	0.12	2.4

9724-H56	9724-L56	6	0.02	0.006	0.36	8.0
9724-H59	9724-L59	7	0.06	0.02	1.2	24
9724-H62	9724-L62	8	0.2	0.06	3.6	80
9724-H65	9724-L65	9	0.6	0.2	12	240
9724-H68	9724-L68	10	2.0	0.6	36	800
9724-H71	9724-L71	11	6.0	2.0	120	2400
9724-H74	9724-L74	12	20	6.0	360	8000
9724-H77	9724-L77	13	60	20	1200	24000
9724-H80	9724-L80	14	200	60	3600	80000

† Round holder is compatible with a 51 mm (2 in) diameter port

Modified Koppers Vacuum Viscometer (Reversed Flow)

The Modified Koppers Vacuum Viscometer measures the viscosity of highly viscous materials according to ASTM D2171. Minimum sample volume is 2 mL. Minimum bath depth is 178 mm (7 in). Viscometers are provided with a certificate of calibration and instruction sheet. Holders are sold separately.

Koppers Modified Vacuum Viscometers

Catalog Number	Size	Approximate Constant (poise/sec at 300 mm Hg)			Viscosity Range (poise)	
		Bulb B	Bulb C	Bulb D	Low	High
9724-W50	25	2.0	1.0	0.7	42	800
9724-W55	50	8.0	4.0	3.0	180	3200
9724-W60	100	32	16	10	600	12800
9724-W65	200	128	64	40	2400	52000
9724-W70	400	500	250	160	9600	200000

Zeitfuchs Cross-Arm Viscometer (Reversed Flow)

The Zeitfuchs Cross-Arm Viscometer measures kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D445 and ISO 3104. Filling and cleaning does not require removal from the constant temperature bath. Minimum sample volume is 1 to 3 mL. Minimum bath depth is 230 mm (9 in). Unity factor series has a constant within $\pm 0.2\%$ of the values listed. Viscometers are provided with a certificate of calibration and instruction sheet. Permanently attached round or rectangular metal holders are included or may be ordered separately.

Zeitfuchs Cross-Arm Viscometers

Catalog Number			Size	Approximate Constant (mm ² /s ²)	Viscosity Range (mm ² /s)†	
without holders	with round metal holders*	with rectangular metal holders**			Low	High

Standard	Unity Factor	Standard	Unity Factor	Standard	Unity Factor				
9723-S50	9723-U50	9723-W50	9721-Y50	9724-B50	9724-D50	1	0.003	0.6	2.0
9723-S53	9723-U53	9723-W53	9723-Y53	9724-B53	9724-D53	2	0.01	2.0	10
9723-S56	9723-U56	9723-W56	9723-Y56	9724-B56	9724-D56	3	0.03	6.0	30
9723-S59	9723-U59	9723-W59	9723-Y59	9724-B59	9724-D59	4	0.1	20	100
9723-S62	9723-U62	9723-W62	9723-Y62	9724-B62	9724-D62	5	0.3	60	300
9723-S65	9723-U65	9723-W65	9723-Y65	9724-B65	9724-D65	6	1.0	200	1000
9723-S68	9723-U68	9723-W68	9723-Y68	9724-B68	9724-D68	7	3.0	600	3000
9723-S71	9723-U71	9723-W71	9723-Y71	9724-B71	9724-D71	8	10	2000	10000
9723-S74	9723-U74	9723-W74	9723-Y74	9724-B74	9724-D74	9	30	6000	30000
9723-S77	9723-U77	9723-W77	9723-Y77	9724-B77	9724-D77	10	100	20000	100000

† Viscosity ranges in mm²/s represent flow times of 200 to 1000 seconds

* round holder is compatible with a 51 mm (2 in) diameter port

** rectangular holder is compatible with a bath opening of 25 mm × 48 mm (1 in × 1.9 in)

Zeitfuchs Transparent Viscometer

The Zeitfuchs Transparent Viscometer measures kinematic viscosity of transparent Newtonian liquids according to ASTM D445 and ISO 3104. Filling, measurement and cleaning do not require removal from the constant temperature bath. Minimum sample volume is 15 mL. Minimum bath depth is 292 mm (11.5 in). Both calibrated and uncalibrated viscometers are available and provided with permanently attached round or rectangular metal holders. Calibrated viscometers also include a certificate of calibration and instruction sheet.

BS/IP/MSL Miniature Suspended Level Viscometers

Catalog Number				Size	Approximate Constant (mm²/s²)	Viscosity Range (mm²/s)	
with round metal holders*		with rectangular metal holders**				Low	High
Uncalibrated	Calibrated	Uncalibrated	Calibrated				
9723-A50	9723-B50	9723-C50	9723-D50	1	0.003	0.6	3.0
9723-A55	9723-B55	9723-C55	9723-D55	2	0.01	2.0	10
9723-A60	9723-B60	9723-C60	9723-D60	3	0.03	6.0	30
9723-A65	9723-B65	9723-C65	9723-D65	4	0.1	20	100

9723-A70	9723-B70	9723-C70	9723-D70	5	0.3	60	300
9723-A75	9723-B75	9723-C75	9723-D75	6	1.0	200	1000
9723-A80	9723-B80	9723-C80	9723-D80	7	3.0	600	3000

† Viscosity ranges in mm²/s represent flow times of 200 to 1000 seconds

* round holder is compatible with a 51 mm (2 in) diameter port

** rectangular holder is compatible with a bath opening of 25 mm × 48 mm (1 in × 1.9 in)

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