

SAYBOLT VISCOSITY

Saybolt Viscometer Tubes and Orifices

- Conforming to ASTM D88, E102 and related specifications
- Choice of brass or stainless steel tubes

Viscometer Tubes—Precisely machined brass and stainless steel tubes meeting ASTM requirements. Tubes mount vertically in Saybolt Viscometer Baths and accommodate stainless steel orifices interchangeably. Supplied with mounting hardware.



Orifices—Stainless Steel Universal and Furol Orifices meeting ASTM specifications. Orifices insert in viscometer tubes using K22030 Orifice Wrench (supplied with viscometer baths). Also available - Kansas Road Oil Orifice (requires K22039 wrench). Universal and Furol Orifices are available with a calibration certificate.

Ordering Information

Catalog No.

Viscometer Tubes

- K22009** Saybolt Viscometer Tube, Brass
K22309 Saybolt Viscometer Tube, Stainless Steel

Orifices

- K22010** Saybolt Universal Orifice
K22010-C/F Saybolt Universal Orifice with calibration certificate
K22020 Furol Orifice
K22020-C/F Saybolt Furol Orifice with calibration certificate
K22029 Kansas Road Oil Orifice

Accessories

- 332-003-003** Borosilicate Glass Receiving Flask, 60mL for SV3000
332-003-014 Borosilicate Glass Receiving Flask, 60mL for SV4000
K22030 Orifice Wrench for Universal and Furol Orifices
K22039 Orifice Wrench for Kansas Road Oil Orifices
K22050 Socket Wrench
K22060 Oil Strainer
K22070 Cleaning Plunger
K22080 Displacement Ring. Insert in viscometer tube galley for bituminous materials testing. Meets ASTM E102 specifications.
K22090 Withdrawal Tube
K22011 Thermometer Support

SAYBOLT VISCOSITY THERMOMETERS

Catalog Number	Thermometer	Test Temperature		Range
		°F	°C	
250-000-17F	ASTM 17F	66 to 80°F	—	66 to 80°F
250-000-17C	ASTM 17C	—	19 to 27°C	19 to 27°C
250-000-18F	ASTM 18F	100°F	—	94 to 108°F
250-000-18C	ASTM 18C	—	34 to 42°C	34 to 42°C
250-000-19F	ASTM 19F	122 and 130°F	—	120 to 134°F
250-000-19C	ASTM 19C	—	50 and 54.4°C	49 to 57°C
250-000-20F	ASTM 20F	140°F	—	134 to 148°F
250-000-20C	ASTM 20C	—	60°C	57 to 65°C
250-000-21F	ASTM 21F	180°F	—	174 to 188°F
250-000-21C	ASTM 21C	—	82.2°C	79 to 87°C

Catalog Number	Thermometer	Test Temperature		Range
		°F	°C	
250-000-22F	ASTM 22F	210°F	—	204 to 218°F
250-000-22C	ASTM 22C	—	98.9°C	95 to 103°C
250-000-77F	ASTM 77F	250°F	121°C	245 to 265°F
250-000-108F	ASTM 108F	275°F	135°C	270 to 290°F
250-000-78F	ASTM 78F	300°F	149°C	295 to 315°F
250-000-109F	ASTM 109F	325°F	163°C	320 to 340°F
250-000-79F	ASTM 79F	350°F	177°C	345 to 365°F
250-000-80F	ASTM 80F	400°F	204°C	395 to 415°F
250-000-81F	ASTM 81F	450°F	232°C	445 to 465°F

For NIST traceable certified thermometers, please refer to the ASTM Thermometer section on pages 184 through 191.

Test apparatus for lubricants, insulating oils, and heater fuel grades:

Catalog No.		Order Qty
K21410	Saybolt Viscometer Bath	1
K22009	Viscometer Tube	4
K22010	Universal Orifice	4
332-003-003	Receiving Flask (SV3000)	4
332-003-014	Borosilicate Glass Receiving Flask, 60mL for SV4000	4
355-001-001	White Technical Oil	5
250-000-17F	Series ASTM Thermometers or	
250-000-17C	Series ASTM Thermometers	

Test apparatus for bituminous materials:

Catalog No.		Order Qty
K21410	Saybolt Viscometer Bath	1
K22009	Viscometer Tube	4
K22020	Furol Orifice	4
K22080	Displacement Ring	4
332-003-003	Receiving Flask (SV3000)	4
332-003-014	Borosilicate Glass Receiving Flask, 60mL for SV4000	4
355-001-002	High Temperature Heat Transfer Fluid	5
250-000-17F	Series ASTM Thermometers or	
250-000-17C	Series ASTM Thermometers	