

Viscosity Standards

...to verify calibration of laboratory viscometers/rheometers

- Accuracy: $\pm 1\%$ of viscosity value
- Excellent temperature stability
- Recommended for use with Brookfield and most other rotational viscometers
- Most economical
- Special viscosity values and temperature calibrations available upon request



Special Order Silicone Fluids

For our customers needing a nonstandard viscosity or temperature range, our silicone fluids can be modified to meet most requirements.

Viscosity Blends Calibrated at 25°C (77°F)

Minimum: 5 cP (mPa·s)

Maximum: 60,000 cP (mPa·s)

Blends will be within $\pm 2\%$ of requested value

Temperature Calibrations

Minimum: 10°C (50°F)

Maximum: 80°C (176°F)

Minimum temperature increment: 2°C

General Purpose Silicone Fluids

Brookfield Part #	Nominal Viscosity cP (mPa·s)	Temp °C
5 cps	5	25.0°C
10 cps	10	25.0°C
50 cps	50	25.0°C
100 cps	100	25.0°C
500 cps	500	25.0°C
1000 cps	1,000	25.0°C
5000 cps	5,000	25.0°C
12500 cps	12,500	25.0°C
30000 cps	30,000	25.0°C
60000 cps	60,000	25.0°C
100000cps	100,000	25.0°C

High Temperature Silicone Fluids

Brookfield Part #	Nominal Viscosity cP (mPa·s)	Temp °C	Temp °F
HT30000	30,000	25.0°C	77°F
	9,000	93.3°C	200°F
	4,500	149.0°C	300°F
HT60000	60,000	25.0°C	77°F
	18,000	93.3°C	200°F
	9,000	149.0°C	300°F
HT100000	100,000	25.0°C	77°F
	30,000	93.3°C	200°F
	15,000	149.0°C	300°F



VisCal Kit

The Brookfield VisCal Kit provides all the necessary items to verify calibration of your Viscometer/Rheometer. Includes Brookfield 600mL Beaker, 1 pint of Silicone Viscosity Standard, Dispensing Bottle for cleanup and Trapper Cleaning Agent (available only in USA).

Oil Viscosity Standards

These fluids are used for specific instruments using cone/plate or Krebs spindle geometry. Also, certain industries may require use of oil standards. Rheometers.



Accuracy: $\pm 1\%$ of viscosity value

Appropriate for use at shear rates greater than 500 sec⁻¹

Recommended for use with cone/plate Viscometers at viscosities above 5,000 cP

Recommended for Brookfield CAP series and KU-2 Viscometers and R/S Rheometers

Brookfield oil viscosity standards are hydrocarbon based, either mineral oil or polybutenes

Note: Other oil fluids are available – call for details

Brookfield Viscosity Standards are accurate to $\pm 1\%$ of the stated viscosity and are certified by methods traceable to the United States National Institute of Standards and Technology (NIST). The selection of one or two fluids will normally provide sufficient measurement points to verify calibration of your instrument. All fluids are supplied in 1/2 liter (1 pint) containers complete with a certificate of calibration. CAP Oil Fluids are supplied in 150 mL (4 oz) containers

CAP Viscometer Oil Fluids

For calibrating CAP Series cones each spindle has its own fluid

HOW TO SELECT A CAP FLUID

- Determine which viscometer is being used: High Torque or Low Torque.
- Determine which temperature model is being used:
Low Temperature (5°C-75°C) or High Temperature (50°C-235°C)
- Determine which cone is being used.

Cone Spindle	HIGH TORQUE CAP				LOW TORQUE CAP			
	Low Temp 25°C		High Temp 60°C		Low Temp 25°C		High Temp 60°C	
	Brookfield Part #	Viscosity cP (mPa·s)	Brookfield Part #	Viscosity cP (mPa·s)	Brookfield Part #	Viscosity cP (mPa·s)	Brookfield Part #	Viscosity cP (mPa·s)
1	CAP1L	89	CAP1H	89	CAP0L	57	CAP0H	57
2	CAP2L	177	CAP2H	177	CAP1L	89	CAP1H	89
3	CAP3L	354	CAP3H	354	CAP2L	177	CAP2H	177
4	CAP4L	708	CAP4H	708	CAP3L	354	CAP3H	354
5	CAP5L	1,417	CAP5H	1,417	CAP4L	708	CAP4H	708
6	CAP6L	3,542	CAP6H	3,542	CAP5L	1,417	CAP5H	1,417
7	CAP7L	1,328	CAP7H	1,328	CAP1L	89	CAP1H	89
8	CAP8L	5,313	CAP8H	5,313	CAP3L	354	CAP3H	354
9	CAP9L	21,250	CAP9H	21,250	CAP5L	1,417	CAP5H	1,417
10	CAP10L	236	CAP10H	236	CAP2L	177	CAP2H	177

Krebs Viscometer Oil Fluids

Brookfield Part #	Nominal Viscosity Krebs Units	Temp °C
KU64	64	25.0°C
KU79	79	25.0°C
KU84	84	25.0°C
KU95	95	25.0°C
KU106	106	25.0°C

General Purpose Oil Fluids

Brookfield Part #	Nominal Viscosity cP (mPa·s)	Temp °C
B31	31	25.0°C
B210	210	25.0°C
B750	750	25.0°C
B1400	1,400	25.0°C
B2000	2,000	25.0°C
B11000	11,000	25.0°C
B20000	20,000	25.0°C
B80000	80,000	25.0°C
B200000	200,000	25.0°C
B420000	420,000	25.0°C

R/S Rheometer Oil Fluids

Spindle	Brookfield Part #	Nominal Viscosity cP (mPa·s)	Temp °C
C25-1	B41000	41,000	25.0°C
C50-1	B11000	11,000	25.0°C
C50-2	B41000	41,000	25.0°C
C75-1	B4900	4,900	25.0°C
C75-2	B4900	4,900	25.0°C