

CAP1000+ and 2000+ Series

...Cone & Plate Viscometers



Small sample size
(less than 1 mL)

Keypad
for direct
input of test
parameters

Cone Spindle
is easily removed
for cleaning

Easy-to-Use Control Handle
for accurate, automatic cone positioning

Designed to handle repetitive testing
in production environments
with easy setup and cleaning

4-Line Display
allows simultaneous viewing of all test
parameters

Choice of instruments:
CAP1000+ (single speed)
CAP2000+ (variable speed)

Automatic cone/gap positioning

Built-in Peltier Plate
for temperature control of sample:
L Series: 5°C — 75°C
H Series: 50°C — 235°C

MODEL	VISCOSITY RANGE* cP(mPa·s)		SPEEDS	
	Min.	Max.	RPM	Number of Increments
CAP 1000+	see chart on (p15)		900/750	2
CAP 2000+			5-1K	995

* Dependant on cone selected.
M = 1 million K = 1 thousand cP = Centipoise mPa·s = Millipascal/seconds

BROOKFIELD VISCOMETERS

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What's Included?

Instrument

Choice of Torque Range:

- High Torque (ICI Specification): 181,000 dyne • cm
- Low Torque: 7,970 dyne • cm

Choice of One Cone Spindle

Choice of Temperature Control: L or H

Optional Accessories

CAP Viscosity Standards

Additional Cone Spindle

Capcalc32 Software ▶

CAP1000+: Single speed 750 or 900 rpm instrument, ideal for QC. Optional choice of alternative speed is available upon request. See examples below at 400 rpm and 100 rpm.

CAP2000+: Variable speed 5-1000 rpm instrument ideal for R&D as well as more detailed QC testing. Automated PC control (using optional Capcalc32 software).



Perfect for Paints & Coatings

Meets Industry Standards:
ASTM D4287, ISO 2884, BS 3900
High Shear Rate Cone & Plate
(10,000 sec-1)



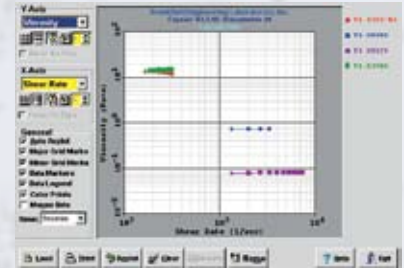
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Capcalc32 Software Optional

Turn your CAP2000+ Viscometer into a more powerful rheometer

Capcalc32 allows control of the CAP2000+ Viscometer while providing automatic data capture and graphical display. Automate your CAP 2000+ Viscometer and generate flow curves quickly and easily.

- Controls test parameters with powerful scripting capabilities
- Looping functions for repetitive tasks
- Automates data collection to save time and reduces operator error
- Math modeling for yield stress calculations, plastic index
- Plot up to five data sets for comparisons



CAP Cone Viscosity Ranges (Poise)

MODEL	High Torque	1000+ @750rpm	1000+ @900rpm	1000+ @400rpm	2000+ @5-1000rpm	1000+ @100rpm†	2000+ @5-1000rpm
Shear Rate (sec ⁻¹) 13.3N Cone Spindle CAP-01		.25-2.5	.2-2	.375-4.6	.2-375	.2-81	.2-16
Shear Rate (sec ⁻¹) 13.3N Cone Spindle CAP-02		5-5	.4-4	.75-9.3	4-750	2-1.6	.2-32
Shear Rate (sec ⁻¹) 13.3N Sample Volume 38µL Cone Spindle CAP-03		1-10	.8-8	1.5-18.7	.8-1.5K	.33-3.3	.2-66
Shear Rate (sec ⁻¹) 13.3N Sample Volume 4µL Cone Spindle CAP-04		2-20	1-16	3-37.5	1-3K	.65-6.5	.2-130
Shear Rate (sec ⁻¹) 3.3N Sample Volume 13.4µL Cone Spindle CAP-05		4-40	3-33	6-75	3-6K	1.3-13	.2-260
Shear Rate (sec ⁻¹) 3.3N Sample Volume 67µL Cone Spindle CAP-06		10-100	8-83	15-187	8-15K	3.3-33	.2-660
Shear Rate (sec ⁻¹) 2.0N Sample Volume 700µL Cone Spindle CAP-07		N/A	N/A	.78-7.81*	.78-625*	.13-1.3	.2-26
Shear Rate (sec ⁻¹) 2.0N Sample Volume 400µL Cone Spindle CAP-08		N/A	N/A	3.13-31.3*	3.13-2.5K*	.54-5.4	.2-108
Shear Rate (sec ⁻¹) 2.0N Sample Volume 100µL Cone Spindle CAP-09		N/A	N/A	12.5-125*	12.5-10K*	2.2-22	.2-440
Shear Rate (sec ⁻¹) 5.0N Sample Volume 170µL Cone Spindle CAP-10		N/A	N/A	1-10*	1-1K*	.22-2.2	.2-44

mL = microLiter K = 1 thousand P = poise 1 Pa·s = 10 poise N = RPM e.g. Cone CAP-01 13.3 x 10 (rpm) = 133 sec⁻¹
 *Maximum speed recommended with this spindle is 400 rpm. Viscosity range indicated is for operation at 400 rpm. †Special speed instrument.
 Note: Viscosity ranges shown above are for illustration. The exact range will depend upon instrument configuration.

Applications

MEDIUM VISCOSITY

- Adhesives (hot melt)
- Architectural Coatings
- Autocoats (Hi-performance)
- Creams & Gels
- Food Products
- Gums

- Industrial Coatings
- Inks (screen printing)
- Organisols
- Paints & Coatings
- Paper Coatings
- Plastisols

- Resins
- Starches
- Surface
- UV Coatings
- Varnish

HIGH VISCOSITY

- Adhesives
- Asphalt
- Chocolate
- Composite Polymers
- Epoxies

- Gels
- Inks (ballpoint, offset, lithographic)
- Molasses
- Pastes
- Roofing Compounds

- Sealants
- Sheet Molding Compound
- Tars
- Vinyl Esters