(800) 528-7411 or (602) 470-1414
brookfieldengineering.com

CAP 1000+™

Cone & Plate Viscometer
Appropriate for moderate to high shear tests

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
- Protective Keypad Covers

Single speed 750 or 900 rpm instrument, ideal for QC. Optional choice of alternative speed is available upon request.

VISCOSITY RANGE cP(mPa•s)			SPEEDS	
Model	Min	Max	RPM	Number of Increments
CAP 1000+	See next page		900/750	2

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

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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Features

Keypad for direct input of test parameters

Cone Spindle is easily removed for cleaning

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

Automatic Cone/gap positioning

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

4–Line Display allows simultaneous viewing of all test parameters

Small sample size less than 1mL

Standalone simplicity for QC users

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

Applications

Medium Viscosity

Adhesives (hot melt)
Architectural Coatings
Autocoats (Hi-performance)
Creams
Food Products
Gels
Gums
Coatings
Inks (screen printing)
Organisols
Industrial Coatings
Paints
Paper Coatings
Plastisols
Resins
Starches
Surface
UV Coatings
Varnish

High Viscosity

Adhesives
Asphalt
Compound
Chocolate
Composite Polymers
Epoxies
Gels
Inks (ballpoint, offset, lithographic)
Molasses
Pastes
Roofing Compounds
Sealants
Sheet Molding
Tars
Vinyl Esters

CAP Cone Viscosity Ranges (Poise)

Shear Rate (sec-1): Sample Volume (L) : Cone Spindle:	13.3N 67 L CAP-01	13.3N 38 L CAP-02	13.3N 24 L CAP-03	3.3N 134 L CAP-04	13.3N 67 L CAP-01	13.3N 38 L CAP-02	13.3N 24 L CAP-03	3.3N 134 L CAP-04	13.3N 24 L CAP-03	3.3N 134 L CAP-04
Model HIgh Torque										
1000+ @750rpm	.25-2.5	.5-5	1-10	2-20	4-40	10-100	N/A	N/A	N/A	N/A
1000+ @900rpm	.2-2	.4-4	.8-8	1-16	3-33	8-83	N/A	N/A	N/A	N/A
1000+ @400rpm†	.375-4.6	.75-9.3	1.5-18.7	3-37.5	6-75	15-187	.78-7.81*	3.13-31.3*	12.5-125*	1-10*
2000+ @5-1000rpm	.2-375	.4-750	.8-1.5K	1-3K	3-6K	8-15K	.78-625*	3.13-2.5K*	12.5-10K*	1-1K*
Low Torque (for applications requiring low shear rates for low/medium viscosity fluids, an optional low torque 797-7,970 dyne•cm instrument can be ordered)										
1000+ @100rpm†	.2-.81	.2-1.6	.33-3.3	.65-6.5	1.3-13	3.3-33	.13-1.3	.54-5.4	2.2-22	.22-2.2
2000+ @5-1000rpm	.2-16	.2-32	.2-66	.2-130	.2-260	.2-660	.2-26	.2-108	.2-440	.2-44

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