

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		900/760	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)

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

High Viscosity

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

CAP Cone Viscosity Ranges (Poise)

Shear Rate (sec-1):	13.3N	13.3N	13.3N	3.3N	13.3N	13.3N	13.3N	3.3N	13.3N	3.3N
Sample Volume (L) :	67 L	38 L	24 L	134 L	67 L	38 L	24 L	134 L	24 L	134 L
Cone Spindle:	CAP-01	CAP-02	CAP-03	CAP-04	CAP-01	CAP-02	CAP-03	CAP-04	CAP-03	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.