

## MEASURING RANGE

### Measuring Range for M3500a-1 & M3500a-5 Viscometers

ROTOR\BOB	R1 B1	R2 B1	R3 B1	R1 B2	R1 B3	R1 B4
<b>BASIC DATA</b>						
Rotor Radius (cm)	1.8415	1.7588	2.5866	1.8415	1.8415	1.8415
Bob Radius (cm)	1.7245	1.7245	1.7245	1.2276	0.8622	0.8622
Bob Height (cm)	3.800	3.800	3.800	3.800	3.800	1.900
Shear Gap in Annulus (cm)	0.1170	0.0343	0.8621	0.6139	0.9793	0.9793
Radii Ratio, R <sub>1</sub> /R <sub>0</sub>	0.9365	0.9805	0.667	0.666	0.468	0.468
Maximum Use Temperature (°C)	93	93	93	93	93	93
Minimum Use Temperature (°C)	0	0	0	0	0	0
<b>SHEAR STRESS RANGE</b>						
Shear Stress Range (dynes/cm <sup>2</sup> )						
For Model M3500a-1	1~1,000	1~1,000	1~1,000	2~1,793	4~4,000	8~8,000
For Model M3500a-5	5~5,000	5~5,000	5~5,000	10~9,864	20~20,000	40~40,000
<b>SHEAR RATE RANGE</b>						
Shear Rate Range (1/S)						
For Both Model M3500a-1 & M3500a-5	0.017~ 1,021	0.054~ 3,254	0.0038~ 226	0.0038~ 226	0.00027~ 161	0.00027~ 161
<b>VISCOSITY RANGE IN CENTIPOISE</b>						
Minimum Viscosity						
For Model M3500a-1	0.098	0.031	0.38	0.0088	2.5	5.0
For Model M3500a-5	0.49	0.15	1.9	0.044	12.4	24.8
Maximum Viscosity						
For Model M3500a-1	5,882,353	1,851,852	26,315,789	47,184,211	1,481,481,481	2,962,962,963
For Model M3500a-5	29,411,765	9,259,259	131,578,947	259,578,947	7,407,407,407	14,814,814,815