1.	ROTATIONAL VISCOMETER: equipped with level adjustment capability and measures
_	torque required to rotate spindle and display in Pa.s
2.	TEMPERATURE CONTROLLER: proportional, maintains temperature ± 1.0°C in range
_	of 60 to 165°C
3.	CYLINDRICAL SPINDLES: various sizes to accommodate asphalt binders of different
4	viscosities
	OVEN: maintains temperature in range from room temperature to 260°C to within ± 3°C
	THERMOMETERS: for range of 60 to over 200°C and readable to 0.2°C
о.	BALANCE: 2000g capacity and readable to 0.1g
	CALIBRATION AND STANDARDIZATION
1	ROTARY TRANSDUCER: accuracy checked by use of reference (Newtonian) fluids
	TEMPERATURE CONTROLLER: accuracy checked by measuring temperature of
۷.	sample in test chamber with a traceable thermometer and comparing it to the controller
	set temperature
	<u>PROCEDURE</u>
1.	VISCOMETER: level
2.	TEMPERATURE:
	a) sample chamber and spindle preheated according to manufacturer's recommendations
	b) proportional controller set to desired temperature
3.	SAMPLE:
	a) required amount of asphalt binder heated sufficiently to enable pouring
	b) when desired test temperature reached, sample holder is removed and required
	amount of asphalt binder added to the sample chamber
	c) sample chamber inserted into the proportional controller unit
	d) preheated spindle inserted into the sample chamber and connect to viscometer
	e) sample covers upper conical portion of cylinder
	f) sample reaches desired temperature within approximately 30 min and equilibrated
	for 10 min
	g) viscometer speed set to 20 rpm and read in Pa.s
	h) if torque is out of range speed is adjusted or cylinder is changed i) viscosity is measured at one minute intervals for a total of three minutes
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REPORT

 2. 3. 4. 5. 	DATE AND TIME OF TEST: TEST TEMPERATURE: to nearest 1°C ROTATIONAL SPEED: in rpm SPINDLE: size used TORQUE: in percent VISCOSITY: average of three readings expressed in Pa.s
7.	EQUIPMENT MANUFACTURER:
8.	MODEL
REMARKS:	