

Rotational Viscometer

H.A.W

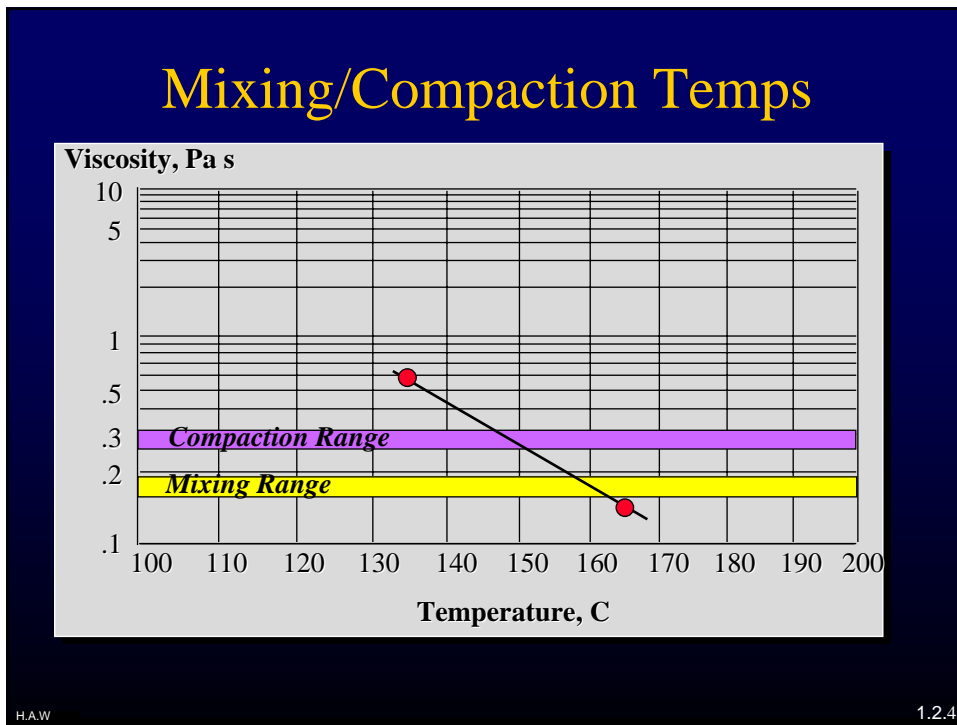
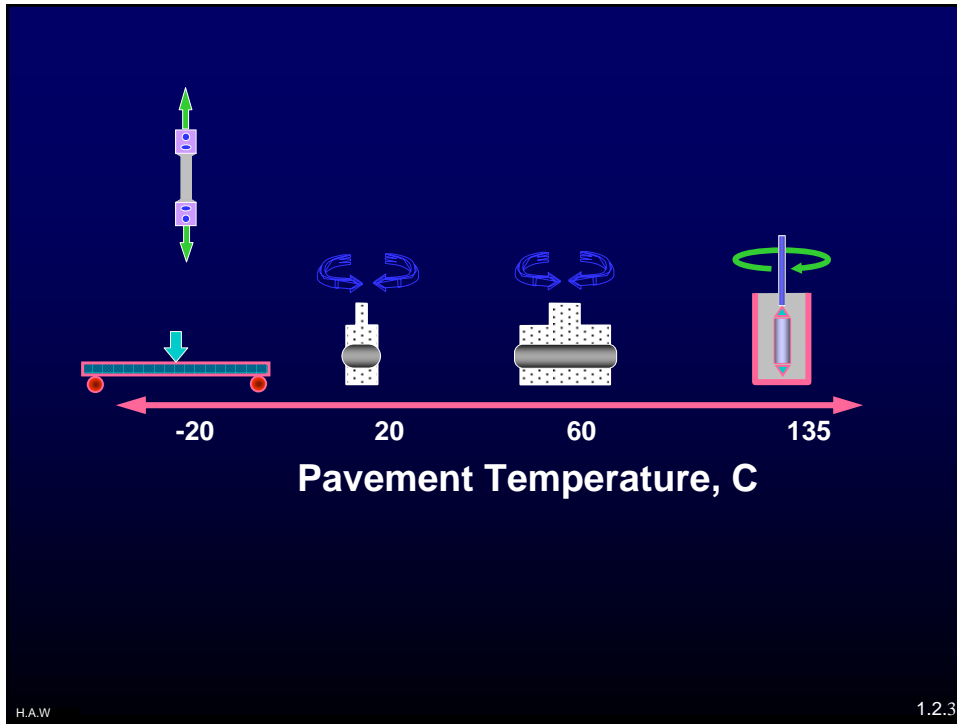
1.2.1

Rotational Viscometer

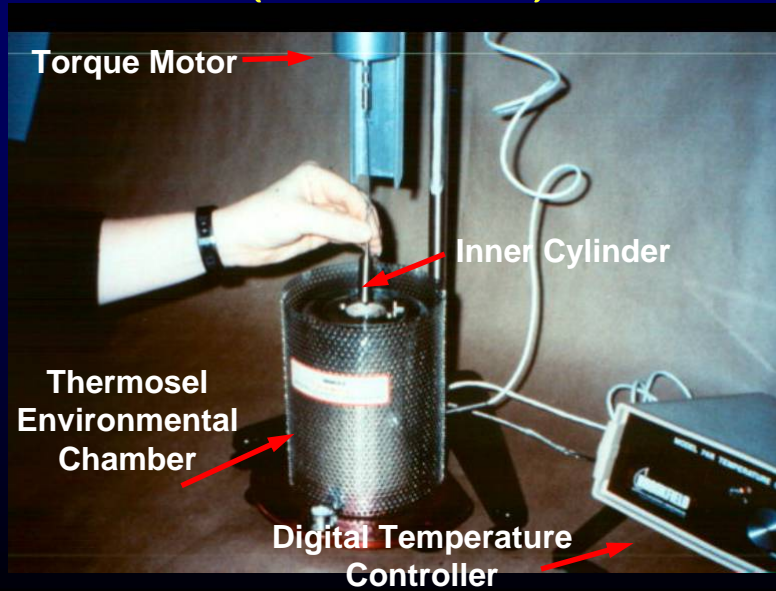
- **Purpose**
 - handling and pumping
 - temp/viscosity profile
- **Output**
 - viscosity at 135 C

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1.2.2

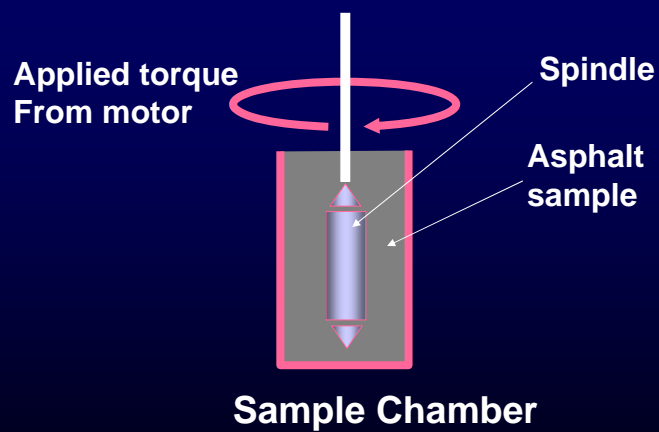


Rotational Viscometer (Brookfield)



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1.2.6

Specimen Preparation

- **Heat Sample**
- **Pour into Sample Chamber**
- **Place in Thermo-Container**
 - set temperature to 135 C

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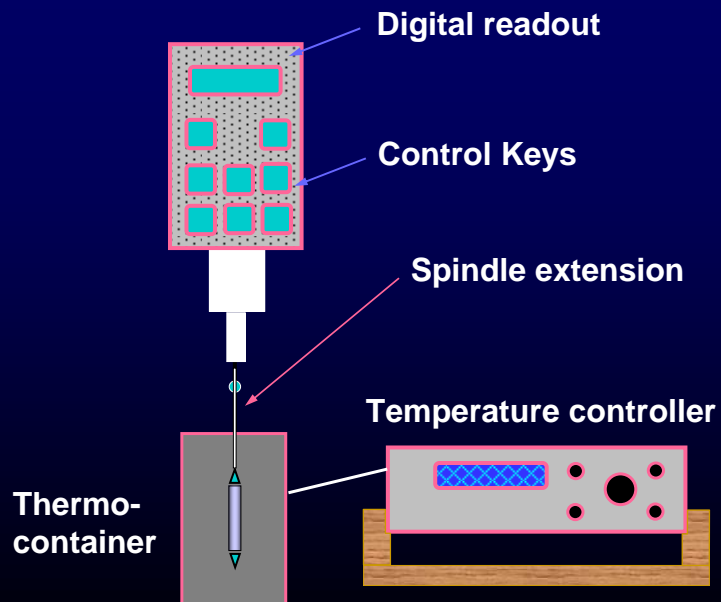
Test Equipment

- **Rotational Viscometer**
 - motor
 - controls (**keypad or computer**)
 - display
 - spindle
- **Temperature Control System (Thermoseal™)**
 - temperature controller
 - thermo-container
 - sample chamber

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Brookfield viscometer



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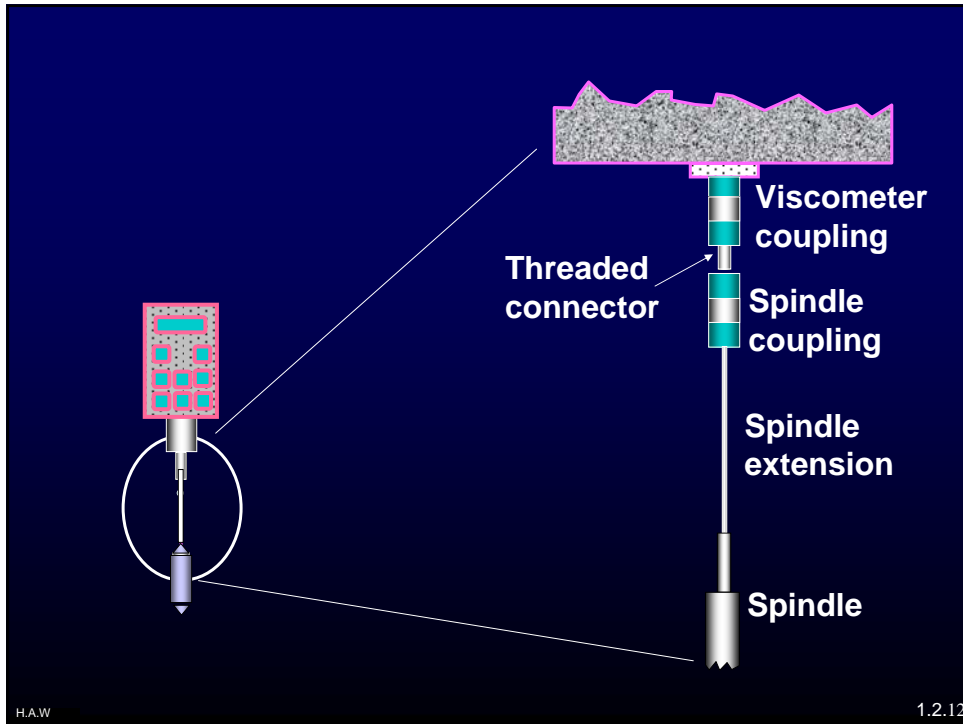
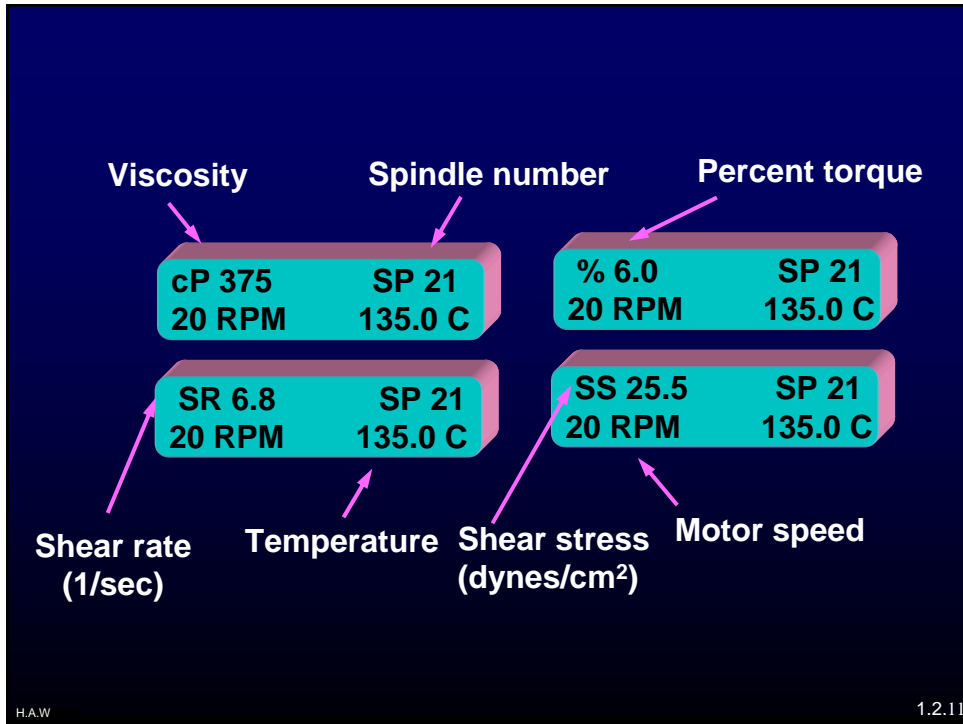
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Overview of Procedure

- **Sample Chamber into Thermo-Container**
- **Fasten Spindle**
- **Set Display**
- **Actuate Motor**
 - speed = 20 rpm
- **Equilibrate Temperature**
 - viscosity stabilizes

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Data Analysis and Presentation

- **Report**
 - viscosity at 135 C
 - average of three readings
 - spindle number
 - rotational speed

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Calibration and Standardization

- **Rotary Transducer**
 - reference fluid
- **Output**
 - calibrated thermometer

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1.2.14