

Softening Point Tester *asp-6*

- Ergonomically color-coordinated display for high visibility and intuitive switch operation.
- Enhanced versatility including Ethernet for LIMS, USB port for flash memory or keyboard. Password protection and data storage (max.200 results).
- All-in-one chassis design: compact, lightweight and premium.

Intelligent full-auto Operation

asp-6 automates the softening point test by ring-and-ball method for bitumen or similar substances, prescribed in ASTM D36, ASTM E28, EN 1427 and IP 58. The theme of the 6th generation model is "Ergonomic, Versatile and Premium. A photo-electric device with wide light beam is employed to assure a reliable automatic detection of softening point.



Easy operation

Just set up the specimen, choose the bath liquid type, and press the START key; all the rest of the test procedures such as heating, softening point detection, and heater cooling are performed automatically.

Reliable falling detection

Thanks to the wide light projector and wide light receiver, asp-6 detects ball even if the ball falls with some angle.

Data handling

asp-6 can store up to 200 test results and export to an optional printer or to a LIMS through RS232 /Ethernet port.

Softening Point Tester asp-6

Specifications

Test methods	ASTM D36, ASTM E28, EN 1427, IP 58, etc	
Type	Two-rings & two-balls	
Measuring range	Ambient to 200°C (392 °F)	
Temperature sensor	PT-100 in stainless steel sheath	
Softening point detector	Light projector : LED Light receiver : photo-diode	
Display	5.7 inch color LCD with back light	
Heater	Nichrome coil heater : 1,000 W @100V or 1,000W @220V	
Sequense control	By an on-board microcomputer	
Test mode	ASTM D36 water, ASTM D36 glycerin, EN 1427 water, EN 1427 glycerin	
Stirring	Magnetic stirring, selectable from 0 to 250 rpm	
I/O Port	Ethernet x 1 for LIMS USB x 1 for Flash Memory or Keyboard RS-232C x 1 for LIMS / PC or Optional Printer	
Data memory	Last 200 sets of test results	
Safety mechanism	Automatically shuts off and the problem is reported by buzzer and display, in case : (a) The sample falls on only one side and not on the other within the set temperature range, (b) The sample does not fall on either side within the set upper limit temperature, (c) Light projector or receiver is found defective, (d) Temperature sensor is found defective, (e) Temperature sensor is not placed in the right position, (f) Built-in battery is found drained out, or (g) Control computer runs away (no display)	
Size (W x D x H)	230 x 470 x 420 (mm)	
Weight	14 kg	
Installation site	RT : 10 to 40 °C, RH: Less than 90% (no condensation)	
Power supply	AC100 / 120 V or 220 / 240 V 50 / 60 Hz (set at the factory, specify when ordering) 1,500 W (max.)	
Ordering Information	1. Ring holder and bottom plate assembly	1 pc
Standard accessories	2. Shouldered ring	6 pcs
	3. Ball, 3/8in.	6 pcs
	4. Ball centering guide	2 pcs
	5. Beaker	1 pc
	6. Beaker handle	1 pc
	7. Temperature sensor assy	1 pc
	8. Temperature sensor holder	1 pc
	9. AC power cord, 3.0m (<AC125V) or 2.5m (>AC200V)	1 pc
	10. Instruction manual	1 copy
	Opional accessories	Printer, BS2-80TS w / connecting cable, Mini USB keyboard
Suggested spares	1. Ring holder and bottom plate assembly	1 pc
	2. Nichrome heater coil 1,000 W @100 V or 1,000 W @220 V	1 pcs
	3. Light receiver assy	1 pcs
	4. Temperature sensor assy	1 pcs
	5. Shouldered ring	20 pcs
	6. Ball, 3/8in.	20 pcs
	7. Ball centering guide	2 pc
	8. Beaker	1 pc
	9. Beaker handle	1 pc

Specifications subject to change without prior notice.

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