



No. 440

FLAMMABILITY TESTER FOR TEXTILE



No.440

JIS-L1091

➤ FEATURE

This tester is used to test the flammability (flaming speed) of thin cloth (scarfs and clothes). The C Method can also be used to measure the speed of which the test specimen burns. The operator is to measure the length and the width of the burn and acquire the average to calculate the flammability of the test specimen.

➤ SPECIFICATION

Specimen	50 × 150 mm
Burner	Propane Gas Burner, Flame Height 16 mm
Timer	Max. 999.9 sec (Preset type)
Flame Angle	45°
Flaming Time	1 sec
Flame Height Adjustment	Needle Valve type, U-Shaped Manometer
Specimen Holder Angle	30°, 45°, 60°
Power Source	AC 100 V, 1-Phase, 5 A, 50/60 Hz
Heat Source	Liquid Nitrogen Gas Type 2 No.4
Dimensions/ Weight (Approx.)	W400 × D320 × H530 mm/ 30 kg

No. 440-B

VERTICAL FLAMMABILITY TESTER FOR TEXTILE



No.440-B

JIS-L1091, L1091(appendix 8)

➤ FEATURE

This tester is used to test the flammability of particular textile products such as night clothes with A-4 Method (Vertical Method) testing. The alternative Vertical Burner Method can also be used to measure the degree of spread of the burn and the after-flame. The flame height is set to 38 mm, and is placed 17 mm under the specimen clamped jig. After the center of the specimen is applied heat for 3 seconds, the length between the lower end and the torn end is measured.

➤ SPECIFICATION

Test Method	A-4 Method (Vertical Method)	Alternative Method (Vertical Burner Method)
Burning Box	Inner Diameter: W329 × D329 × H762 mm	Inner Diameter: W304.8 × D304.8 × H762 mm
Specimen	89 × 254 mm	70 × 300 mm
Burner	Busen Burner, Inner φ11 mm, Flame Height 38 mm Attaching: 25° to Vertical Direction	Busen Burner, Inner φ9.5 mm, Flame Height 38 mm Attaching: Vertical
Burner Movement	Automatic Sliding	
Timer	Ignition Timer: Max. 999.9 sec (Preset Method) Flaming Timer: Max. 99,999.9 sec (Preset Method) After-flame Timer: Max. 99,999.9 sec (Running Method) After-glow Timer: Max. 99,999.9 sec (Running Method)	
Igniter	Automatic Ignition (Plug Method)	
Test Load	0.54 N, 1.12 N, 2.23 N and 3.34 N (1 pc each)	1.11 N, 2.23 N, 3.33 N and 4.45 N (1 pc each)
Accessories	Specimen Holder, Flame Height Measuring Stand, Scale	
Power Source	AC 100 V, 1-Phase, 5 A, 50/60 Hz	
Heat Source	Methane Gas (Purity: 97 % Over)	Liquid Petroleum Gas or City Gas
Dimensions/ Weight (Approx.)	W590 × D330 × H930 mm/ 55 kg	

*Power source, dimensions, weight may differ by specifications.

No. 440-S

MVSS FLAMMABILITY TESTER



No.440-S1



No.440-S1
Option: Timer



No.440-S2
Option: Timer

FMVSS-302, JIS-D1201, (JASO), ISO-3795, ASTM-D5132

> FEATURE

This tester is used to evaluate the flammability of inner material for cars, tractors, and machines. The test specimen is set on a U-shaped specimen holder, and applied heat on the open end for 15 seconds. The operator is then to measure the flaming speed of the test specimen.

> SPECIFICATION

Model	No.440-S1 (FMVSS, ASTM)		No.440-S2 (JIS, ISO, JASO)	
	FMVSS	ASTM	JIS / ISO	JASO
Standard				
Specimen (Standard)	W102 mm, L356 mm, T13 mm or Less	W100 mm, L300 mm or more, T13 mm or Less	When W3 to 60 mm L356 mm, T13 mm or Less When W60 to 100 mm L138 mm, T13 mm or Less	W100 mm, L356 mm
Bunsen Burner	Inner φ10 mm	Inner φ9.5 ± 0.3 mm	Inner φ9.5 ± 0.5 mm	Inner φ10 mm
Heat Source	Natural Gas	Methane Gas or Natural Gas (Calorific Value 37 ± 1 MJ/m ³)	Natural Gas (Calorific Value 38 MJ/m ³)	Natural Gas (Calorific Value 38 MJ/m ³)
Specimen Holder	U-shape with Groove (Pitch 25 mm), Marked Line		U-shape with Groove (Pitch 25 mm), Pin Tray	
Heat-Resisting Wire	φ0.25 mm			
Accessories	Specimen Attachment Set, Gas Lighter, Thermometer, LPG Gas Hose, Hose Band, Flame Gauge, Heat-Resisting Wire, Specimen Holder (Only No.440-S1), Bobbin (Only No.440-S1), Saucer (Only No.440-S2)			
Option	Timer (Flaming Time Control), Spirit Level, Heat-Resisting Wire(Spare)			
Power Source	AC 100 V, 1-Phase, 5 A, 50/60 Hz (with Timer)			
Dimensions/ Weight (Approx.)	W480 × D250 × H580 mm/ 18 kg		W480 × D250 × H580 mm/ 20 kg	