

Automatic Interfacial Tension Tester (0.01 mN/m; 0.1 mg)

BGD 234-2

Product Description

This instrument is designed in accordance with ISO 6295, ISO 1409, ASTM D1417, EN 14370, and other test methods for measuring interfacial tension of petroleum products between oils and water (Ring Methods).

It is suitable for determining interfacial tension between mineral oils and water under non-equilibrium conditions (liquid-liquid interface). It can also be used to determine the surface tension of various liquids (liquid-gas interface).



Standards

- ISO 6295
- ISO 1409
- ASTM D1417
- EN14370

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Technical Specification

- Equipped with an advanced electromagnetic balanced force sensor, the instrument provides highly precise and reproducible testing results
- A large (5") touch screen displays the current environmental temperature, current tension, peak tension, equivalent tension, etc., making it easy to operate.
- Built-in testing methods include both platinum ring and platinum plate, allowing the operator to choose either or both
- Fully automatic operation eliminates all human error. The platinum plate locks the liquid interface automatically, the platinum ring shows the tension curve, and peak tension is locked automatically. The screen directly displays the tension values without any conversion
- Automatic full-range calibration includes weight calibration, pure water tension, and ethanol tension
- An elaborate ball screw lift system operates without noise, and its rising and falling speed can be adjusted
- The lifting bracket is designed for easy installation and disassembly of the platinum ring and platinum plate
- The operator can calibrate the force value at any time using a standard weight
- One-button peeling function ensures no drift at zero point and stable data display
- Automatic compensation for environmental temperature: using water and ethanol as standards, the tester automatically converts the sample's tension value to the equivalent at 20°C

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Main Technical Parameters

Ordering Information	BGD 234-1	BGD 234-2
Measurement range	0-1000	0-1000
Resolution (mN/m)	0.1	0.01
Accuracy (mN/m)	0.1	0.01
Repeatability (mN/m)	0.1	0.01
Balance precision (g)	0.001	0.0001
Testing Methods	Design platinum plate and platinum ring, either one or both	
Operation Methods	Touch operation, sample plate lifts automatically, converts automatically	
Showing Method	5 inch coloured touch screen	
Weighing System	Electromagnetic Balance	
Automatic Calibration	Yes	
Data Processing Software	Optional	
Mini-printer interface	Optional	
Testing Time (sec)	In 10 sec for platinum plate; 50 sec for platinum ring	

Disclaimer

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