

HWP17-10SE

BAM Friction Sensitivity Tester



Accurate and Efficient



Accurate



Automatic



Safety



The BAM Friction Sensitivity Tester precisely determines mechanical friction sensitivity in energetic materials, including primary explosives, high explosives, propellants, and pyrotechnic compositions. This instrument is widely implemented across safety engineering applications, transportation sectors, and research/production facilities such as energetic material laboratories, chemical manufacturing plants, pesticide production units, and military research institutions.

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Product Features

- Embedded processor with Windows CE OS.
- 8-inch LCD touchscreen for real-time test status visualization.
- High-precision motion control unit for exact porcelain plate positioning.
- Adjustable porcelain plate speed.
- Corrosion-resistant friction/load mechanism with reinforced safety.
- Fully automated operation with parameter configuration and data logging.
- An optional wireless video monitoring system is available to monitor experiments in real-time.
- Features a front-mounted transparent safety shield. An optional exhaust system can be equipped to evacuate explosive gases or dust. The detection unit remains unobstructed and exposed to the atmospheric environment, ensuring a natural oxygen supply.

Test Standards

- UN Manual of Tests and Criteria 13.5.1 Test 3(b)(i): BAM Friction Tester
- GB/T 21848-2008
- GB/T 21566-2008
- NY/T 1860.6-2010
- GB 5085.5

Application Fields



Energetic Materials



Pesticides



Chemical Products

Technical Specifications

Operating Environment	-5°C – 45°C, < 95% RH
Motor Speed	140±3 rpm (at maximum load)
Load Range	1 ~ 2 ~ 5 ~ 10 ~ 20 ~ 40 ~ 60 ~ 80 ~ 120 ~ 160 ~ 240 ~ 360N
Load Accuracy	±0.038 N at 1 N; ±0.048 N at 2 N; ±0.080 N at 5 N; ±0.21 N at 10 N; ±0.45 N at 20 N; ±0.49 N at 40 N; ±0.22 N at 60 N; ±0.27 N at 80 N; ±0.32 N at 120 N; ±0.37 N at 160 N; ±0.43 N at 240 N; ±0.48 N at 360 N.
Screen Mesh Specification	35 mesh (optional)
Porcelain Surface Roughness	9-32 μm
Distance between Weight and Porcelain Rod Centers	11cm, 16cm, 21cm, 26cm, 31cm, 36cm
Plate Travel Distance	10 mm
Plate Dimensions (L×W×H)	25 mm × 25 mm × 5 mm
Rod Dimensions (Ø×L)	10 mm × 15 mm