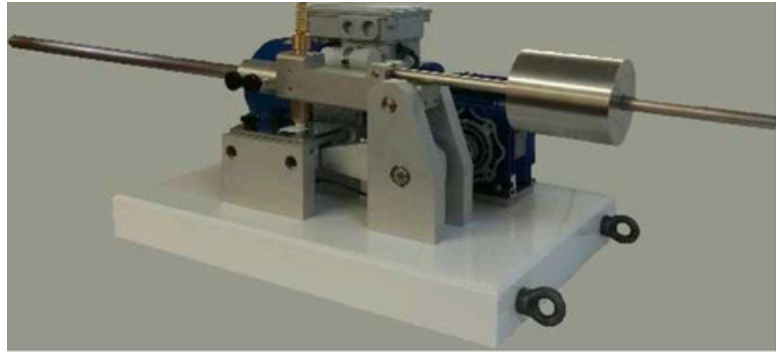


CTL 023 – BAM Friction Test Apparatus Data Sheet



An instrument for determining the sensitivity of powders, liquids and gels to frictional stimuli

Safety

Some powders are deliberately manufactured with highly energetic behaviour, but occasionally it is an unexpected property of a new material. For regulatory compliance there are a number of screening tests which have to be performed on new materials in order that they can safely be transported. One such screening is the BAM Friction test, which measures sensitivity to sliding (rubbing) contact and to determine if the substance is too dangerous to transport in the form tested or to classify a product in terms of its explosivity, labelling etc.

This apparatus is defined in the United Nations Handbook “Recommendations on the Transport of Dangerous Goods – Manual of Tests and Criteria” and also in the European Commission Handbook “Classification, Packaging and Labelling of Dangerous Substances in the European Union Part 2 – Testing Methods”. This apparatus also appears in the Defence Ordnance Safety Group, Energetic materials Testing and Safety Policy Committee Manual of Tests Volume 1 Test 43A.



BAM Friction Test Apparatus

Benefits

- Excellent for screening products for sensitivity to Frictional stimuli in order to determine whether an explosive has been developed by accident in Industrial pharma/chemical sectors.
- Excellent screening tool for classifying a product for transport and EU packaging and labelling classification.
- Simple to use hook on weight location at each position on the loading arm
- Robust design
- Permits testing in Frictional load range from 5 to 360 N
- Weight number/location vs frictional load energy stamped on unit for quick reference

Functional specification & deliverables

The apparatus and accessories supplied are as follows:

- 1 x Friction Tester assembly complete with base plate, cam assembly with sliding carriage, motor drive (220/240 V 50 Hz or 60Hz), peg locating device, counterbalance arm and operating switch box
- 1 x Loading arm with hook for weight location
- 1 x 0.23 kg load weight (Weight 1)
- 1 x 0.46 kg load weight (Weight 2)
- 1 x 0.93 kg load weight (Weight 3)
- 1 x 1.41 kg load weight (Weight 4)
- 1 x 1.89 kg load weight (Weight 5)
- 1 x 2.83 kg load weight (Weight 6)
- 1 x 3.76 kg load weight (Weight 7)
- 1 x 5.65 kg load weight (Weight 8)
- 1 x 8.46 kg load weight (Weight 9)
- The weights above allow coverage of the desired 5-360 N load range.
- 1 x counterbalance weight
- 1 x comprehensive Instruction/Operational Manual
- 1 set calibration graphs for load weight locations.
- All apparatus supplied by DEKRA is provided with a 12 month warranty (excluding consumables)

Optional extras

- Other load weights available at extra cost
- Sets of porcelain pegs and plates (400 pegs and 100 plates per set)



DEKRA Organisational & Process Safety

Contact

DEKRA Organisational and Process Safety are a behavioural change and process safety consultancy company. Working in collaboration with our clients, our approach is to assess the process safety and influence the safety culture with the aim of making a difference.

In terms of behavioural change, we deliver the skills, methods, and motivation to change leadership attitudes, behaviours, and decision-making among employees. Supporting our clients in creating a culture of care and measurable sustainable improvement of safety outcomes is our goal. The breadth and depth of expertise in process safety makes us globally recognised specialists and trusted advisors. We help our clients understand and evaluate their risks, and we work together to develop pragmatic solutions. Our value-adding and practical approach integrate specialist process safety management, engineering, and testing. We seek to educate and grow client competence in order to provide sustainable performance improvement. Partnering with our clients, we combine technical expertise with a passion for life preservation, harm reduction and asset protection.

We are a service unit of DEKRA SE, a global leader in safety since 1925 with over 48,000 employees in 60 countries and five continents. As a part of the world's leading expert organisation DEKRA, we are the global partner for a safe world.

We have offices throughout North America, Europe, and Asia.

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