

BAM Fallhammer Apparatus

Some powders are deliberately manufactured to possess 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 be classified and safely transported. One such screening is a BAM Fallhammer test, which measures sensitivity to mechanical force. The kit also provides invaluable information for safe material handling and processing.



CHILWORTH TEST APPARATUS

The BAM Fallhammer test is used to determine the sensitivity of a given solid (including paste-like and gel-type) substances and liquids to drop-weight impact stimuli of known force. The test apparatus complies with the UN Transport of Dangerous Goods Manual of Tests and Criteria and also to the Classification, Packaging and Labelling of Dangerous Substances in the EU Part 2- testing methods (latest editions). The test method used in both standards yields quantitative results in the form of a limiting impact energy which are used to determine whether a substance can be transported in the form tested and also provides the data for determining choice of symbol, indications of danger and choice of risk phrases associated with new and existing products. The apparatus is small and compact and hence may be sited neatly in a corner of a laboratory.

SPECIFICATION

- 1kg, 2kg, 5kg and 10kg weights to give desired impact load range at various drop heights. (Other requested drop heights and weight configurations can be catered for.)
- Solid cast steel base block.
- Hardened steel main 100mm diameter anvil
- Hardened steel intermediate 26mm diameter anvil
- Central column with guides (graduated scale) ready set and calibrated for correct height.
- Tested in live trials within Chilworth's own test facilities prior to dispatch.

SUPPLIED WITH THE APPARATUS

- 100 x steel collars
- 200 x steel rollers
- 2 x Locating rings for sample with built in orifices for gas release
- Upper to lower roller distance calibrator (sets desired sample gap for liquids)
- Set of 50 o'rings for use with the distance calibrator
- 40mm³ sample loading spatula
- Data sheet with calibration results
- Comprehensive test manual
- Main anvil and 2 x intermediate anvils
- Centering ring
- Protective polycarbonate hinged screen

BAM Fallhammer

OPTIONAL

- Remote dropweight operation
- Extraction cover / connection

THE BENEFITS

The BAM Fallhammer apparatus is:-

- Easy to operate
- Excellent if laboratory space is limited
- Minimal maintenance required
- Robust
- Competitively priced

Testing to GLP Standard



Consultancy



Training



Koenen Tube Explosivity Test Apparatus

CHILWORTH SERVICES IN PROCESS SAFETY

As well as equipment supply we also offer a range of testing and consultancy services to the process industry, covering:-

- Dust/Gas/Vapour Explosion
- Electrostatic Hazards
- Hazardous Area Classification
- Chemical Reaction Hazards
- Chemical Process Optimisation
- Regulatory Testing (NONS, SDS, CHIP, CPL, UN)
- ATEX / DSEAR Audits
- IEC61508/11 Functional Safety & SIL Determination
- Major Hazards (Seveso II / COMAH)
- HAZOP
- Incident Investigation / Expert Witness
- Training

For further information and a comprehensive list of the services available, please contact one of our offices detailed below.

CONTACT

Chilworth Technology can be contacted at the following sites:-

Chilworth Technology Ltd

Beta House, Chilworth Science Park,
Southampton, SO16 7NS, UK

Tel: +44 (0)23 8076 0722

Fax: +44 (0)23 8076 7866

Email: marketing@chilworth.co.uk

Web: www.chilworth.co.uk

USA: Chilworth Technology Inc, New Jersey

Tel: +1 609 799 4449 Email: safety@chilworth.com Web: www.chilworth.com

Italy: Chilworth Vassallo Srl, Valmadrera

Tel: +39 0341 200023 Email: info@chilworth.it Web: www.chilworth.it

France: Chilworth SARL, Serezin

Tel/Fax: +33 (0)4 78 02 01 94 Email: info@chilworth.fr Web: www.chilworth.fr

India: Chilworth Safety & Risk Management (Pvt) Ltd,

Mumbai Office; Tel: +91 (0)22 5694 2350

New Delhi Office; Tel: +91 (0)11 5566 1496

Email: info@chilworth.co.in Web: www.chilworth.co.in

For further information telephone 023 8076 0722