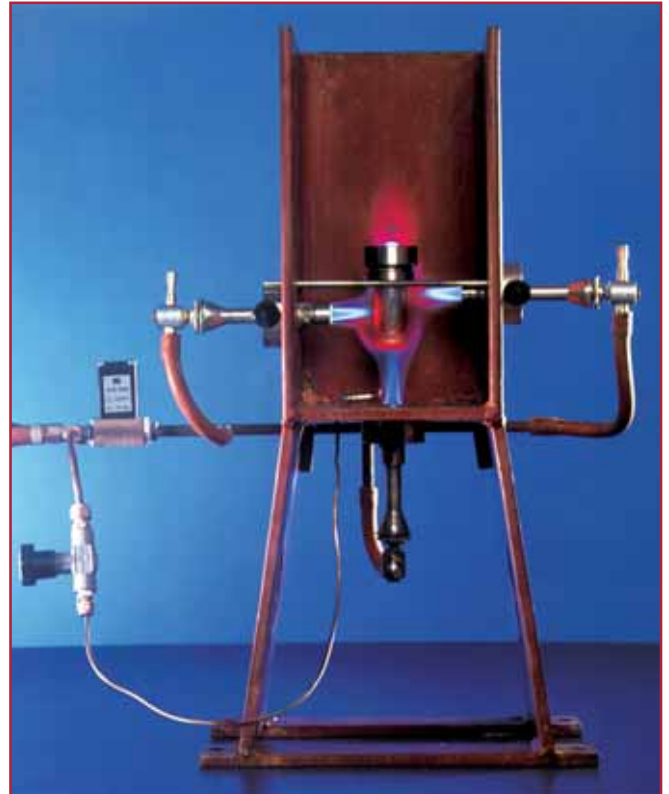


Koenen Tube Apparatus

For regulatory compliance there are a number of tests which have to be performed on new materials in order that they can be classified and safely transported. One such method is the Koenen tube test, which measures the effect of heating under confinement on potentially explosive materials. The test also provides invaluable information for safe material handling and processing.



Koenen Tube Apparatus

CHILWORTH TEST APPARATUS

The Koenen tube test is a UN standard test and the apparatus is used to determine the effect of heating under confinement on potentially explosive materials. The material under test (liquid, solid or paste) is placed within a steel tube fitted with a standard diameter orifice at one end. The tube is exposed to direct flame heating. The condition of the tube after the test provides an indication of the sensitivity of the material to heating under confinement. The results are used to determine whether a substance is too dangerous (in the form tested) to transport. They also provide data for determining choice of symbol, indication of dangers and choice of risk phrases associated with new and existing products. The apparatus complies with the United Nations Transport of Dangerous Goods Manual of Tests and Criteria and also to the Classification, Packaging and Labelling of Dangerous Substances Regulations in the EU (latest editions).

SPECIFICATION AND EQUIPMENT SUPPLIED

Burner information :

- Support frame with 4 main burners.
- Solenoid valve actuated main gas manifold 100-120V/60Hz or 220-240V/50Hz.
- Pilot igniter with facility for remote isolation of pilot gas line.

The equipment accessories supplied comprises the following :

- Complete set of Orifice plates consisting of the following sizes. 1,1.5,2,2.5,3,3.5,4,5,6,8,10,12,14,16,18 & 20mm.
- 2 sizes of collar assembly.
- 100 disposable Koenen tube shells.
- Length of burner hose.
- Comprehensive instruction/test manual.

Koenen Tube Apparatus

THE BENEFITS

- Easy to operate
- Compact and Portable
- Robust
- Separate robust pilot igniter with remote facility for easy ignition of four main burners
- Competitively priced
- Heat up rate tests performed prior to dispatch as per UN calibration procedure guidelines
- Other associated test equipment available from Chilworth includes BAM Fallhammer, BAM Friction, SADT, Time Pressure apparatus, etc.



BAM Fallhammer Apparatus

Testing to GLP Standard



Consultancy



Training



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.

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