

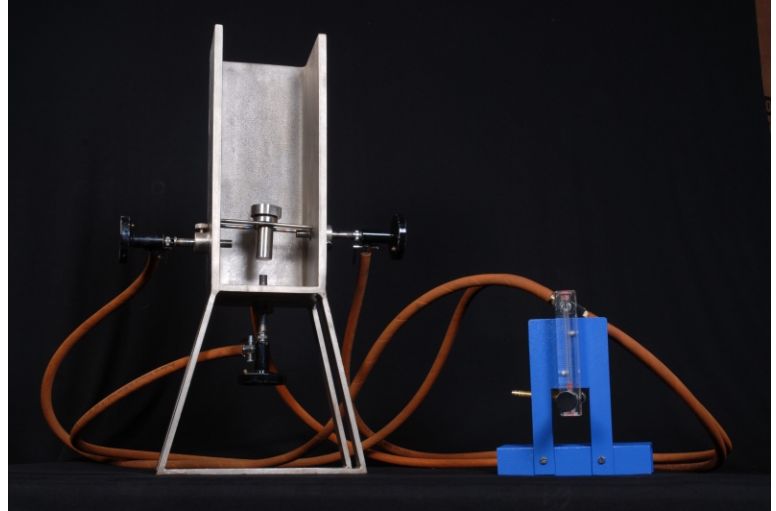


# DANGEROUS CHEMICALS TRANSPORT WORTHINES TESTING SYSTEMS as per European Standards & Classifications

## EXPLOSIVE PROPERTIES - BY FLAME

To study the reaction of solids and liquids to intense heating under partial confinement. Designed and manufactured to permit testing to the UN Transport of Dangerous Goods recommendations, Manual of Tests and Criteria and to the European Classification, Packaging and Labelling of Dangerous Substances in the European Union guidelines.

The complete setup consists of a mechanical Shield, Flow regulator with regulator for Propane Gas (LPG), burners, exploding tubes and tube Closing nuts with orifice plates as per spec.



### Optional accessories & spares

Digital Flow control system  
Spare holding nuts & orifice plates  
Spare Exploding tubes  
Temp. Recording system for pre test conditioning

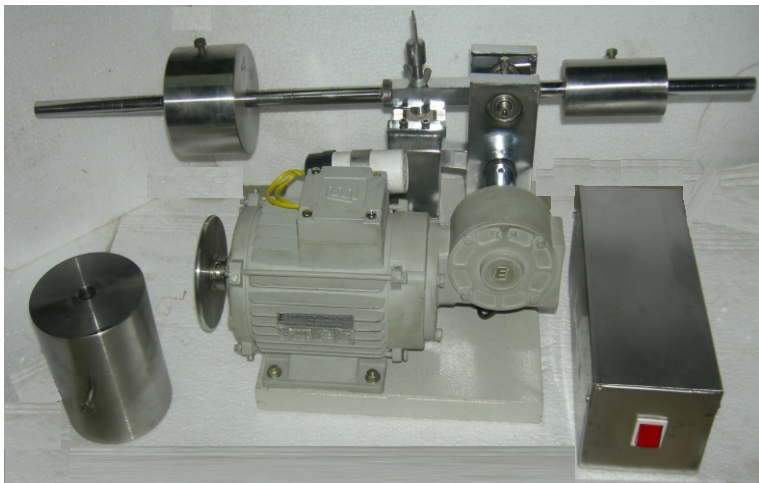
## EXPLOSIVE PROPERTIES - BY FRICTION

To examine the sensitivity of solids and pastes to sliding (frictional) contact. Designed and manufactured to permit testing to the UN Transport of Dangerous Goods recommendations, Manual of Tests and Criteria and to the European Classification, Packaging and Labelling of Dangerous Substances in the European Union, testing methods.

The system consists of the main movement system with porcelain plate, peg, loading weights and counter weights

### Optional Accessories & spares

Spare Porcelain peg & plate  
Digital loading system with indicator  
Fully automatic models with remote operation also available.



## EXPLOSIVE PROPERTIES - BY SHOCK



To study the impact sensitivity of solids and liquids. Designed and manufactured to permit testing to the UN Transport of Dangerous Goods recommendations, Manual of Tests and Criteria and to the European Classification, Packaging and Labelling of Dangerous Substances in the European Union, testing methods.

The apparatus is supplied complete with a graduated guide tube, heavy base plates & blocks as per the specifications, liquid & solid sample holders, 5 Kg weight along with additional 5 Kg add on weight.

### Optional Accessories & spares

Spare Tubular weights as per requirement

Fully automatic models with remote operation facility also available.

## SELF IGNITION TEST

For the accurate study of the effect of scale on powder thermal instability. (PC Bowes, Self Heating : Evaluating and Controlling the Hazards, 1984, FRS) Can also be used for regulatory testing studies in accordance with UN test requirements and also for packaging group classification, notification and other regulatory Requirements.

Consists of an all SS oven fitted with special power saving SS heaters capable of attaining temperatures upto 400°C with programmable control module for slow heating, time vs temp. recording system with software and sample holding basket



## AUTO-IGNITION TEMPERATURE



For determining the temperature at which a gas or vapour will auto ignite. Equipment can be supplied in accordance with ASTM, DIN, IEC or to the European Classification, Packaging and Labelling in the European Union test standard. It comes complete with high speed data acquisition system.

## VACUUM STABILITY TESTER



To study the chemical sensitivity and stability of solids and liquids explosive in nature. Designed and manufactured to permit testing to UN/NATO and other similar standards for Dangerous Goods and explosives. The instrument continuously monitors and records the pressure change in the tube containing the sample at set temperature.

The apparatus is supplied complete with heating block, glass assemblies, pressure sensors and recording device with pc interface.

Available with 6/12 test setup, more possible on request  
**Optional Accessories & spares**

Spare glass assemblies  
Spare pressure sensors

## EXPLOSION TEMPERATURE RECORDER

Same as above but with a different block configuration and special thermal sensors with high speed data acquisition system with Pc interface to record the exact thermal change and extremities

**Optional Accessories & spares**  
Spare temperature sensors

## TIME/PRESSURE TEST APPARATUS

Also used for oxidising properties of liquied.  
For determining the temperature at which a gas or vapour will auto ignite. Equipment can be Supplied In accordance with ASTM, DIN, IEC or to the European Classification, Packaging and Labelling in the European Union test standard. It comes complete With high speed data acquisition system.



**OTHER SPECIAL PURPOSE TESTING SYSTEMS CAN BE DESIGNED AND DEVELOPED AS PER CUSTOMERS REQUIREMENTS OR AS PER REQUIRED STANDARDS.**

**NOTE : DUE TO CONTIONUS DEVELOPMENT DESIGN SUBJECT TO CHANGE WITHOUT PRIOR INTIMATION**



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