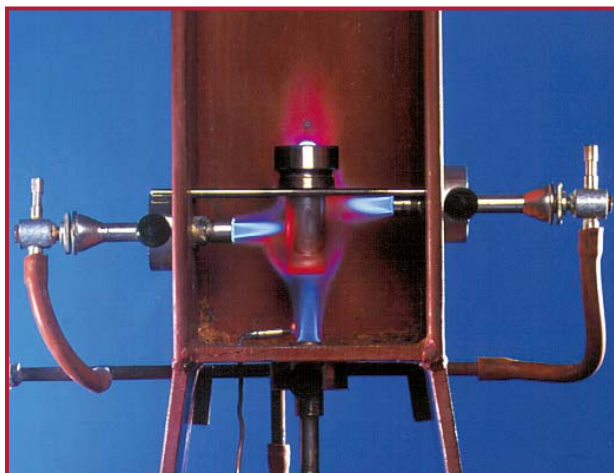


Physico-Chemical Properties

Essential physico-chemical data for new substances and preparations to enable correct packaging, labelling and classification (Risk and Safety Phrases).



Koenen Tube Explosivity Test

NEW SUBSTANCES & PREPARATIONS

“I have a new substance that I wish to market but need to ensure it can be handled safely.” Your first question is how to convey that information and label the material appropriately. For Notification Of New Substances (NONS) it is necessary to identify physico-chemical, toxicological and ecotoxicological properties and put the information into a technical dossier along with an appropriate risk assessment for submission to a Competent Authority (CA). For substances and preparations it is necessary to produce a relevant Safety Data Sheet (SDS).

Chilworth Technology laboratories are qualified to supply essential physico-chemical, toxicological and ecotoxicological data as per Annex V of the Dangerous Substances Directive 67/548/EC with all physico-chemical tests being performed in-house. We can also carry out UN Class 1, 2, 3, 4, 5 and 8 testing for transportation purposes such as UN, ADR, IMO, IATA, CPL, etc. and assist with classification, packaging and labelling requirements.

WHY YOU NEED GLP COMPLIANT LABORATORIES

Good Laboratory Practice (GLP) is your guarantee of reliable and reproducible data. GLP compliance is also a legal requirement for companies providing data for NONS submissions, CHIP and SDS compilation and is widely used when defining classification for transportation purposes. At Chilworth Technology our testing capabilities are supported by experienced consultants who can help select the appropriate tests for your requirements and assist in the interpretation and application of data.

Listed below are just some of the physico-chemical tests we offer from our GLP compliant laboratories:-

- Melting/Freezing Temperature
- Boiling Temperature
- Relative Density
- Vapour Pressure
- Surface Tension
- Water Solubility
- Partition Coefficient
- Flashpoint
- Flammability (solids)
- Flammability (gases)
- Flammability (contact with water)
- Pyrophoric Properties of Solids & Liquids
- Explosive Properties (inc. full UN classification)
- Auto-Ignition Temperature (Liquids & Gases)
- Relative Self Ignition Temperature (Solids)
- Oxidising Properties (Solids & Liquids)

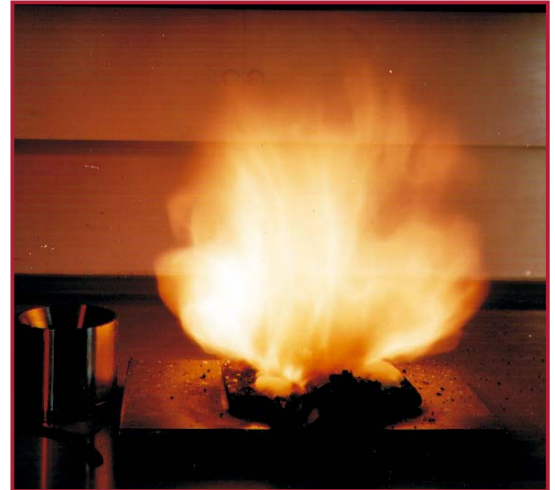
Additionally, we also carry out a variety of other material characterisation tests, including particle size analysis using laser diffraction techniques and all process safety tests.

Physico-Chemical Properties

THE BENEFITS

From Chilworth you obtain:-

- Impartial, professional and confidential advice.
- Prompt, personal, and economical laboratory services.
- Expert advice on the selection of tests and on the interpretation of results.
- Access to laboratories which can safely test highly active and toxic material.
- Experienced process safety specialists available to assist with the application of data, hazard assessment of plant or investigation of incidents.
- Links to companies that can provide toxicity and ecotoxicity data as well as registration for NONS.
- The confidence of knowing that data comes from GLP compliant laboratories.



Oxidising Solids

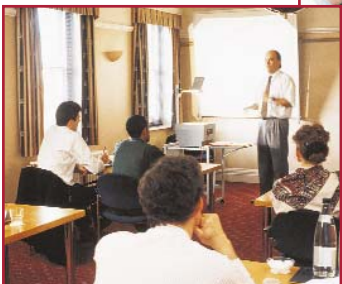
Testing to GLP Standard



Consultancy



Training



OTHER CHILWORTH SERVICES

We also offer a range of testing and consultancy services to the processing 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 Audits
- Major Hazards (Seveso II / COMAH)
- HAZOP
- Incident Investigation
- Expert Witness
- Training

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

CONTACT

Process safety experts are on hand at the following sites:-

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Beta House, Chilworth Science Park,
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