



GTS
specialist knowledge in glass

ANALYSIS & TESTING

BUBBLE ANALYSIS SERVICES

Glass Technology Services Ltd. is an independent laboratory providing a comprehensive range of services related to glass manufacture and use. Our services are provided by experienced, multi-disciplinary staff specialising in all aspects of glass technology.

The occurrence of bubble/blister in glass can lead to significant losses in production. The potential causes of an outbreak are wide ranging. Therefore the identification of gas components and relative pressures can be crucial in determining the possible sources of the bubble/blister and eliminating the problem.

A portable quadrupole mass spectrometer is used to analyse the gaseous components of bubbles. Gases routinely analysed for are: water (H₂O), nitrogen (N₂), oxygen (O₂), argon (Ar₂), carbon dioxide (CO₂), sulphur dioxide (SO₂), carbon oxy-sulphide (COS), hydrogen sulphide (H₂S). Analysis for other gases can be done on request. This is a same / next day service, with experienced opinions provided in addition to analytical results. Our focus is to provide rapid analysis either in house or on site.



The service is backed by an extensive range of on-site analytical techniques including scanning electron microscopy (SEM).

THE BENEFITS:

- Same/next day analysis
- On-site analysis available
- Detailed counts and furnace surveys.
- Trouble-shooting / advisory service
- Extensive glass industry experience

EXAMPLES OF THE RANGE OF GLASS PRODUCTS COVERED:

- Bottles and Jars
- Domestic Glass
- Lead Crystal
- Tubing
- Special/ technical Glass
- Flat Glass

RELATED SERVICES:

- Stone and cord analysis
- Redox determination and colour measurement
- Compositional analysis
- Retained sulphur by XRF or wet chemistry
- Consultancy

If you would like to know more about these, our other services, or any other aspect of glass technology please contact us.

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