

# PE Pipe Testing

Germanischer Lloyd's (GL) Spadeadam test site has extensive facilities to provide quality assurance and certification to manufacturers and operators of PE pipelines, backed by over 30 years experience in the PE business. We work to recognised standards (Transco Standard PL2 or equivalent European Standards), assisting you in developing new products, carrying out type approval tests and supporting production testing. In addition, we offer a technical service for all types of PE pipes and fittings. GL is accredited with BS ISO 9001:2000 standard.



Our services include:

## Full Scale Rapid Crack Propagation (RCP) Testing

- Plastic pipe materials up to 700mm diameter can be tested for their fracture resistance at full scale in a facility incorporating a chilled trench. Tests can be conducted in accordance with Transco Technical Standard PL2, ISO 13478 or other National Standards.

## Type Approvals Testing

- Tests include:
  - 80°C hydrostatic testing
  - 20°C long-term strength
  - Tensile strength
  - Hydrostatic testing after squeeze-off
  - Hydrostatic testing of offset butt joints
  - Extractability of additives
  - Fusibility
  - Accelerated Relaxation and End Load (AREL) tests
  - Temperature cycling testing

We have over 50 fully automated pressure stations that can hydrostatically test pipes at pressures up to 40bar. Our large capacity water tanks means that we can test pipe assemblies of up to 630mm diameter.

## Joint Quality Testing

- Evaluation of butt fusion and electrofusion joints by tensile testing. This is particularly useful when adopting a new line, or when assessing the quality of an existing line before uprating the operating pressure. This service is also an effective means of quality control for pipeline installers.

## Product Development

- Assisting manufacturers in developing new PE products and installation methods with our laboratory testing and field simulation facilities.

## Consultancy

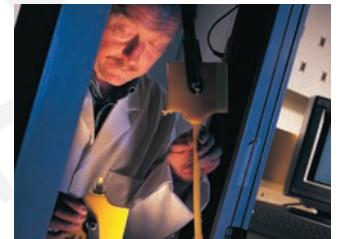
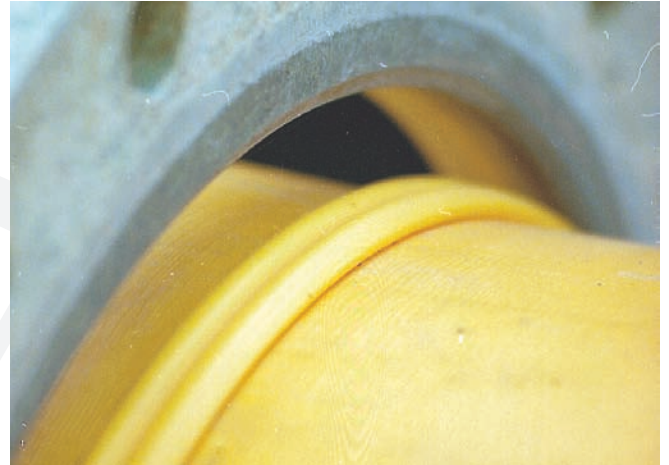
- GL Technology is an established provider of consultancy services on the construction, commissioning and operation of gas transportation systems.

Our involvement with CEN, ISO and BSI as well as internal company standards means that we can offer beneficial advice and expertise on devising specifications for gas companies wishing to set up PE distribution systems anywhere in the world.

We can work with manufacturers looking to market their products in new areas by giving technical support and providing testing services.

## Training

- GL Technology can meet your training needs on all aspects of design, construction, installation and commissioning of PE gas distribution systems.



## GL Industrial Services

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