



Durapipe abs

*Thermoplastic piping for
environment control systems*



Durapipe ABS The market leader in pipe systems for environmental control



Durapipe ABS - the proven industrial pipework system combining corrosion resistance, toughness and economy

Durapipe ABS offers tremendous advantages for low temperature fluid transportation:

- Fully integrated range of pipes, fittings and valves (manual and actuated)
- 50 year service life
- Installed costs reduced
- Non corrodible
- Low maintenance
- Robust and reliable
- Lightweight
- Tough and durable
- Ductile down to minus 40°C
- Exceptionally smooth bore
- No scaling
- Reduced noise compared to metal
- Fast and reliable jointing
- Low thermal conductivity



Durapipe ABS users

Among the major international industrial, and commercial organisations as well as Government Agencies who specify and use Durapipe ABS piping:

- Bank of Zambia
- Boots
- BP
- British Airways Avionics
- British Embassy, Muscat
- BT
- Ferranti UK
- Harrods
- Hilton Hotels
- Hyatt Regency Hotels
- Manchester Airport
- Marks & Spencer
- National Air Traffic Control Service
- Orange
- Palace of Justice, Hague
- Rank Organisation
- J. Sainsbury's plc
- Science Research Council
- Schiphol Airport



Durapipe ABS does not corrode, is tough, durable and has lower insulation costs

Non corrodible

ABS is totally resistant to environmental corrosion from the precipitation of condensate on the outer surface of the pipe and is inert to many of the aqueous solutions and anti-freezes employed by indirect cooling air conditioning systems.



Tough and durable

The butadiene constituent in ABS gives the material exceptional impact strength making Durapipe ABS more resistant to damage, than many metals or plastics.

Reduced insulation costs

Durapipe ABS pipework has low thermal conductivity, minimising heat gain or loss and reducing condensation formation. The need for lagging is reduced or even eliminated.



Durapipe ABS A more efficient system

Smooth bore

The extrusion and injection moulding processes produce exceptionally smooth bores for both pipe and fittings. This results in low frictional head losses, saving on pump running costs and in some cases allowing smaller pipe sizes to be used. The smooth bore, together with the corrosion resistance of ABS, inhibits the formation of scale, making further savings on running costs and helping to ensure that the system stays clean throughout its life.

Ductile down to minus 40°C

Durapipe ABS has a wide operational temperature range. It can be used at temperatures up to 70°C, and remains ductile at sub zero temperatures. It is recommended for use down to -40°C, well below many other plastics.

Noise suppression

The smooth bores and insulation characteristics of ABS will suppress 'rumble noise' often experienced with other materials.



Lightweight

At half the weight of copper and one-sixth the weight of steel pipework, ABS is much easier to handle, especially during installation and can reduce installation costs significantly.

Fast and reliable jointing

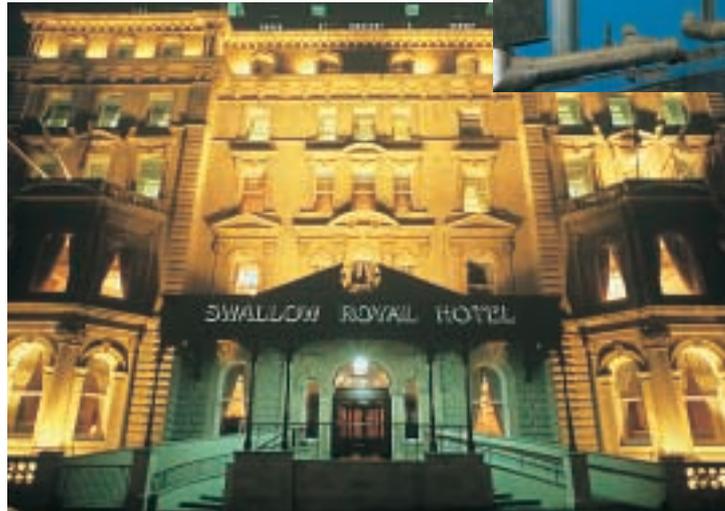
Solvent welding offers a quick and secure means of producing high integrity welded joints, that will remain leakproof throughout the life of the system. Unlike the soldering and welding of metal pipework systems, fire insurance is not required. The speed and simplicity of this jointing method reduces both installed and maintenance costs.

Durapipe ABS The material with many qualities

The large diversity of end uses makes ABS one of the most successful thermoplastics available. ABS is a copolymer of Acrylonitrile, Butadiene and Styrene, blended to give unrivalled properties, offering benefits over traditional materials for chilled water pipework.

Acrylonitrile imparts chemical resistance ensuring the pipework does not corrode or scale. The Butadiene content endows the material with impact strength and toughness particularly at low temperatures, while the Styrene content contributes to lustre, hence extremely smooth bores, and also ensures the strength of the material.

Durapipe is the most experienced and successful ABS pipework systems manufacturer in the World. The outstanding advantages of Durapipe ABS make it the market leader.



The largest range and highest levels of service

Durapipe ABS Systems

Durapipe manufactures matched ABS systems in both millimetre and inch sizes including pipe, fittings and valves. Both systems are designed to operate at their maximum continuous working pressure for 50 years.

The millimetre system is manufactured in accordance with ISO 161 and ISO 727 in sizes from 16mm to 315mm outside diameter with an extensive range of pipe, fittings and valves. Fluids can be conveyed at pressures up to 10bar at 20°C (PN10).

The inch system is manufactured in accordance with BS 5391 and BS 5392 in sizes from 3/8" to 8" NB (nominal bore) with an extensive range of pipe, fittings and valves. 10" and 12" NB pipe, bends and flanges are also available. Fluids can be conveyed at pressures up to 15bar at 20°C.

Customer service

Durapipe operates a technical service to provide UK and worldwide support, covering all aspects of system selection, through to system design and subsequent installation. Comprehensive training can be provided to meet the requirements of the customer.



Quality assurance

Durapipe's commitment to total quality is central to the sustainable growth of our business, whilst providing the highest standard of products and services for our customers. Durapipe operates a quality assurance system in accordance with the BS EN ISO 9001, covering all aspects of product design and manufacture and inspection. We also operate ISO 14000 environmental standards.

Durapipe ABS The right choice for Environment Control Systems

When considering environment control systems, cooling medium distribution pipework is of prime importance. The reliable containment and efficient movement of fluid in pipes is essential to every air conditioning system, from a self contained packaged unit to a full scale central plant scheme.

As well as influencing system performance, pipework accounts for a large proportion of the total installation cost making the right choice of pipes and pipe fittings vital.

Growing environmental concerns have led to the adoption of 'indirect cooling' practices by the environment control industry as well as manufacturers and installers of packaged air conditioning equipment.

The inherent susceptibility to corrosion and thermal properties of metal piping materials such as copper and steel are often not suited to these arduous applications.



The corrosion resistance of the piping material is as important since the aqueous solutions used by such systems may be of a corrosive nature. These have highlighted the benefit of the corrosion resistance of Durapipe ABS piping systems. Growing economical and environmental pressures have also made Durapipe ABS piping the right choice.

Widely specified worldwide, Durapipe ABS piping is ideal for the conveyance of:

- Cooling mediums, typically: chilled water, glycol solutions, ice slurries, organic salt solutions etc.
- Condenser cooling water
- Condensate discharge



For further information on all Durapipe products and services contact our Internal Sales Department as detailed below.

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