

CryoService has many years experience in dealing with industrial organisations within the foundries marketplace and understands the ever changing demands put upon them. By working with these companies it has now designed a comprehensive suite of product offerings that can both reduce the running costs and streamline the ordering processes of small and large foundries alike.

Typical examples of areas currently serviced are:-

- Smelting – Blanketing
- Casting – Hardening
- Laboratory Gases – Testing and validating of alloys



## GASES



### Argon

- Used in either the smelting area, as an inerting/blanketing gas or in the laboratory for ICP-OE and ICP-MS analysis, CryoService has a complete range of storage options for almost all customer applications.
- Storage vessels varying in size from 50 litres up to 12,000 litre capacity.
- Ability to rent or purchase storage vessels.
- Managed cycle delivery schedule, which minimises user involvement. CryoService take over this responsibility, monitoring usage and automatically adjusting deliveries accordingly.
- Mobile and static vessels supplied.

### Carbon Dioxide

- Used as a hardener in the process of sand casting.
- The Liquid CO<sub>2</sub> offering has the same advantages and benefits as the Argon offering, allowing for ease and flexibility to up/down size storage capacity with the minimum amount of production disruption and cost.
- Storage vessels available from 180 up to 15,000 Kg capacity.



## Nitrogen

- Used in either the smelting area as a blanketing gas when mixing high precision alloys or in the laboratory for applications such as GC and LC-MS. CryoService have two different offerings, liquid with the same features and benefits as the Liquid Argon range, or that high purity, compact laboratory generators.

These generators have the following features:-

- Up to 3000ml/minute production capacity with 99.9995%.
- Fast start system to ensure gas is produced within 30 minutes, against almost all other competitor product ranges of 3-4 hours.
- Rental of the unit as standard, with integrated maintenance program.
- PSA (Pressure Swing Absorption) technology utilized, which has a minimum life of 10 years, resulting in a more reliable generator with lower overall lifetime costs.
- Economy and standby mode result in lower operational costs and subsequently generator.



## Other Products and Services Available

- Personal Protective Equipment (PPE) – Glasses, Gloves, Aprons, Face Shields
- Health and Safety – CryoService can offer a range of services from advice on best practice in the design and storage of equipment using liquid nitrogen to full safety audits and a range of safety training courses (either classroom or internet based, dependent upon the users requirement)
- Free site audits to ensure customer sites have optimised delivery frequencies and appropriate on-site storage capacity in comparison to industry standards.

## Overall

CryoService has a product offering for each gas used within the foundry and by offering free site audits is able to optimize site storage vessels versus annual consumption, which it has found result in less deliveries (and associated charges), reduced chance of product run outs, and subsequently provides a more cost effective gas supply solution.