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## PRODUCTS OR MACHINERY

Industrial gas, oxygen, technical gas etc.  
oxygen-supply systems  
oxyfuel burner systems for glass furnaces  
small burners for glass treatment and forming  
glass mould coating  
crypton and xenon gas for insulation glass  
oxy-fuel  
oxy fuel boosting  
oxy boosting  
all oxy fuel

Glass Melting

Using oxygen to optimise glass melting processes and comply with increasingly strict legislation

melting glass with oxyfuel

Using oxygen instead of air in glass combustion processes offers a number of benefits. It eliminates the nitrogen ballast and therefore increases flame temperatures. Oxygen-enriched solutions also raise the concentration of CO<sub>2</sub> and H<sub>2</sub>O in the vicinity of the flame. And since these gases are mainly responsible for thermal radiation, they make gas jets more efficient.

There are a variety of ways to increase combustion efficiency when melting glass. These include:

- All-oxyfuel
- Oxyfuel boosting
- Oxygen enrichment/lancing.

We offer a range of oxygen-based combustion solutions. These innovative technologies bring a host of benefits, including:

- Reduced emissions/CO<sub>2</sub> footprint
- Energy savings
- Increased productivity
- Improved glass quality
- Elimination of nitrogen ballast
- Improved heat transfer.

**Burner Technologies**

Deployed correctly, burners help control heat input more accurately, improve glass circulation and enhance batch melting. You can combine our burners with oxygen lances to increase your melting capacity further. We offer a range of burners tailored to individual applications.

**Supporting Services**

We offer fast, efficient delivery and support services to keep your furnace running with virtually no interruptions and help prolong its service life. Our oxyfuel service also enables you to continue production during regenerator or recuperator repairs by eliminating the need for a heat recovery device.

## COMPANY BACKGROUND / HISTORY

One of the most important gas suppliers world-wide Linde Gas is the first choice of over 1.5 million customers in over 50 countries – customers that benefit from our gas application technology and specialist services as well as our wide range of hardware. Linde Gas offers high-level, technological quality.

We are positioned to develop and implement individual solutions around the world. Innovative technologies transformed into practicable solutions are the driving force behind the progress of our day-to-day business. In our research and development, ideas are converted into new technologies that help our customers secure competitive advantages and open new market opportunities. Our expertise, innovation and creativity are placed at your disposal. Your future begins today. With Linde Gas.