

Making our world more productive



# Gases For Wine Makers

Master the craft of vinification with Linde gases.



# Gases for Every Step of Your Process.

Linde gases provide the product characteristics that our customers need. Chilled, fresh, flavorful — it's all possible with Linde gases and application expertise. When you buy from Linde, you get our total system approach, ensuring that you receive products optimized for your operations and support from our in-house beverage technologists and engineers.

With gases from Linde, every bottle can be delivered at winery quality with a better presentation and a fresher taste. A high-quality gas supply can help you regulate oxygen and oxidation, which can result in spoilage. Our extensive supply systems and gas application technologies can accommodate a wide range of production needs. And we don't stop at gas supply. We'll work directly with you to understand your opportunities for optimization and help you produce high-quality beverages efficiently.



# Dry Ice, Argon, Nitrogen and Carbon Dioxide for Vinification.



## Dry Ice for Vinification

Dry Ice, solid carbon-dioxide (CO<sub>2</sub>), can help winemakers during harvest time while transporting and storing grapes. Dry ice sub-limes into gaseous CO<sub>2</sub> which can provide a temporary gaseous blanket to reduce oxygen levels. Dry ice is also helpful in keeping grapes cool to prevent spontaneous fermentation. Linde provides dry ice in a number of forms including rice pellets, standard pellets and half-cut blocks.



## Nitrogen for Vinification

Nitrogen is used to flush lines, containers and equipment during transferring. It can also be used for sparging during bottling, to remove any additionally release oxygen and preserve the wine, as well as for blanketing tanks and barrels. Linde provides nitrogen in a number of delivery modes, from cylinders and clusters, to portable liquid vessels, as well as microbulk and bulk gas delivery systems.

## Argon for Vinification

Argon, a heavier inert gas, is used throughout the winemaking process as it can provide a longer-term, thick blanket, protecting wine from oxidation. Linde provides argon in a number of delivery modes, from cylinders and clusters, to portable liquid vessels, as well as microbulk and bulk gas delivery systems.

## Carbon Dioxide for Vinification

In addition to availability through the sublimation of dry ice, liquid carbon dioxide (CO<sub>2</sub>) is also available for vinification and for carbonating wines. Linde provides carbon dioxide in a number of delivery modes, from cylinders and clusters, to portable liquid vessels, as well as microbulk and bulk gas delivery systems.

## Improve Gas Handling and Supply

Linde bulk or microbulk on-site gas delivery systems offer a cost-effective and easy-to-use alternative to traditional cylinders and dewars. A microbulk system can be installed on site with piping that reliably brings gaseous CO<sub>2</sub>, argon or nitrogen wherever you need it, throughout your facility. Our microbulk systems are remotely monitored and refilled automatically by Linde. This removes the need to monitor tank levels and place orders and eliminates cylinder handling, enabling you to focus on growing your business. Linde gas supply systems are available in a range of sizes from microbulk to bulk.



Ask your Linde representative for assistance choosing the right gas supply for your needs, whether simple or complex.

# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, our task is to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardized as well as customized solutions. This applies to all industries and all companies regardless of their size.

**Linde – ideas become solutions.**

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