

# Sulfur hexafluoride.

Quality assured solutions and services.



# A highly effective electrical insulator. Solutions and services tailored to high voltage applications.

## Introduction

Sulfur hexafluoride ( $SF_6$ ) is an inert, non toxic, heavy gas with unusual properties that make it suitable for many applications.

A liquefied gas packaged under pressure,  $SF_6$ 's thermal stability and high dielectric strength provide excellent insulating and cooling properties.

It is an ideal quench for electrical circuit breakers and switchgear. Being such a poor conductor of electrical current, it is well suited to high voltage power applications. This includes electricity sub stations, electrical plants and equipment such as electron microscopes and linear accelerators. It is also well suited for leak detection, medical applications, electronics and blanketing when casting magnesium parts.

At Linde Gas we can meet all your needs around the delivery, handling and safe management of  $SF_6$ . Through our local network, we can help you to optimise production processes, satisfy regulatory compliance and be more environmentally friendly. This is particularly important given that  $SF_6$  is a gas with high Global Warming Potential (GWP).

With our global sourcing and production facilities we have substantial bulk storage and bulk breaking capabilities. This is supported by our transfilling, packaging, quality assurance and international logistics, all of which enable us to deploy best in class operational practice and service to you.

## Product stewardship

We operate strict policies regarding product stewardship. We make sure that all the safety, health and environmental protection issues relating to our  $SF_6$  solutions and services are fully understood and reduce risk to people, property and the environment. This includes strict closed loop recovery and waste management systems that satisfy regulatory compliance and prevent any release of  $SF_6$  into the atmosphere.

## Linde portfolio

Sulfur hexafluoride is one product in the Linde Gas portfolio providing compressed, bulk, specialty and medical gases as well as packaged chemicals and refrigerants. Backed by the provision of state of the art application technology, process know-how, services and equipment.

As part of The Linde Group, Linde Engineering is also a leading global solutions partner for plant engineering and construction. Its expertise spans facilities for the production of hydrogen and synthesis gas, oxygen and olefins as well as natural gas treatment. Both divisions work closely together to constantly develop new products and technologies that deliver maximum value for customers.



Sulfur hexafluoride used in power supply.

## Global solutions: local service delivery. A trusted partner.

Linde Gas is one of the world's most advanced providers of added value SF<sub>6</sub> solutions and services. We offer:

### Extensive product offer

- a choice of qualities from technical grade according to IEC 60 376/ ASTM D2472-00 to high quality/specialty grades (HiQ®)
- typical specification of sulfur hexafluoride 3.0 technical grade is: SF<sub>6</sub> >99.9%, H<sub>2</sub>O <5 ppm, CF<sub>4</sub> <500 ppm, air <500 ppm
- volumes to suit scale and application
- a choice of packaging that enables customers to reduce their inventory, better match use and handling requirements and minimise changeover; options include:
- 



2-50 litre cylinders



drum tanks up to 900 litres

### Total solution and services

- best in class logistics ensuring security of supply to the point of use
- technical, operational and legal expertise including support for closed loop systems that satisfy regulatory compliance and prevent SF<sub>6</sub> release into the atmosphere
- specialist services such as process review, on-site audits, risk assessments and advice on end user production chain, dosage and timing
- turnkey supply systems
- safe and legal product recovery and waste management
- recommendations on potential alternative products for your application
- local service delivery through Linde

To order or for further information please visit [www.linde-gas.com/chemicals](http://www.linde-gas.com/chemicals)

# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, it is our task 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 standardised as well as customised solutions. This applies to all industries and all companies regardless of their size.

If you want to keep pace with tomorrow's competition, you need a partner by your side for whom top quality, process optimisation and enhanced productivity are part of daily business. However, we define partnership not merely as being there for you but being with you. After all, joint activities form the core of commercial success.

**Linde – ideas become solutions.**