

**A unique SF₆ supply
and recovery
service from BOC**

Sulphur hexafluoride (SF₆) – a unique product

SF₆ is a gas with unusual properties that make it ideal for a wide range of applications. It is inert and non-toxic with very good insulating and cooling capacity due to its high dielectric strength and thermal stability. SF₆ serves a wide range of industries and applications including:

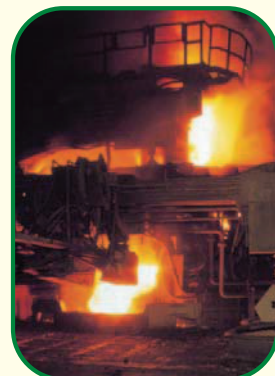
Leak detection.



Power industry



Medical applications



Foundries

BOC can deliver SF₆ in a choice of package sizes for each industry or application, direct to your site.

SF₆ from BOC is high quality, and complies with BS5207, DIN IEC 376 and VDE 073, part 1, Ch. 3.

Medical and high purity grades are also available.

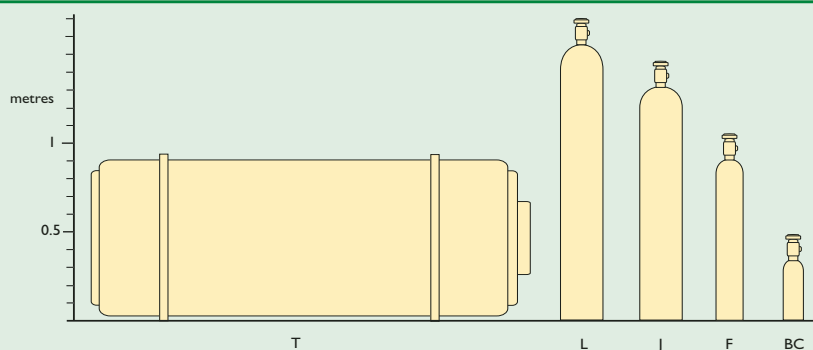
Whether your requirements are large or small, regular or occasional BOC has the right package to suit.

DRUMS

For larger volumes
Minimised inventory
Limited COMAH impact
Safe, secure storage

CYLINDERS

For low cost volumes
Low cost entry
Safe, secure storage



Container size	Container contents	Approx container dimensions (m)	Valve outlet
T	600Kg	2.10 x 0.95	DIN 477 No.6
L	63Kg	1.70 x 0.23	BS 341 No.6
J	43Kg	1.46 x 0.23	BS 341 No.6
F	9.5Kg	0.82 x 0.14	BS 341 No.6
BC	2.0Kg	0.43 x 0.10	BS 341 No.6

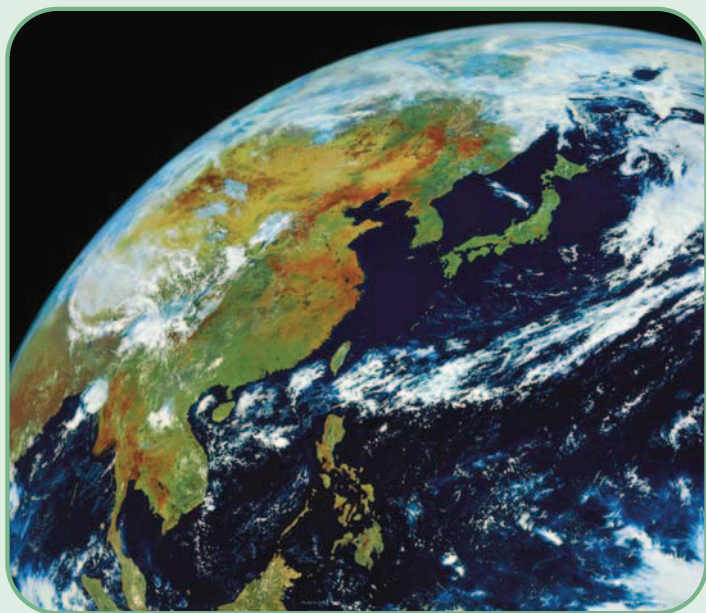
To arrange supply of SF₆ or to discuss your particular application or requirement call us free on 0800 02 0800.

Recovery and decant for SF₆

SF₆ an environmental issue

Sulphur Hexafluoride is used in many applications where it demonstrates considerable advantages over alternative technologies. It is a stable compound with an atmospheric lifetime of 3200, but this stability has an environmental impact. SF₆ is a high global warmer: its 100 year GWP (Global Warming Potential) is 23900 relative to CO₂ with a GWP of 1. SF₆ has been identified in the Kyoto Protocol (1) as one of the “basket of six gases” to be regulated in order to reduce the global warming gases in the atmosphere.

In Europe the F-Gas Regulations (2) will be introduced to meet the commitment made in Kyoto. Its proposals include the introduction of a requirement for the recovery of SF₆ from equipment during servicing or at the end of its life.



The BOC solution - a new recovery service for SF₆

Many users of SF₆ have had a requirement to recover SF₆ in advance of regulation due to personal or corporate environmental commitments or for commercial reasons. BOC can provide a safe, effective and environmentally sound solution for all your needs, including:

- Universities decommissioning high voltage generators.
- Utility switch gear maintenance engineers or contractors.
- Sub-station decommissioning.
- Hospital disposal of deteriorated SF₆ in MRI scanners.

Safety and environmental protection - our priority

BOC has over 100 years of experience handling liquefied gas. We are familiar with all the risks and hazards, personal and environmental associated with pressurised containers, cold liquids and asphyxiant gases. We comply with all national standards and regulations and are fully licensed to perform the tasks we undertake. Environmental responsibility is taken very seriously by BOC, and our employees use the best processes and procedures available to maximise environmental protection.

If you have Sulphur Hexafluoride that needs to be recovered you can be assured that by choosing BOC, the job will be completed professionally, safely and in an environmentally acceptable manner.

A professional approach

BOC offers a range of services from consultancy to complete contract services tailored to satisfy each individual customer's requirements.

🌸 Consultancy

This service includes:

- SF₆ leak detection from electrical switch gear.
- Gas analysis of in-situ equipment (or sample of SF₆ tested back at the BOC laboratory). This can then be recorded as periodic checks on gas quality.
- Review of the gas quality status of all switch gear to BS5209 (IEC60480)
- Gas handling, gas recovery, reclaim and decanting courses and advice.
- SF₆ gas cart maintenance review.

🌸 Basic service to utility companies and industry subcontractors

- **“Decant” cylinder hire**
To allow maintenance of equipment these dedicated and distinctively coloured cylinders can be used as temporary storage containers for SF₆.
- **“Recovery” cylinder hire**
To allow complete removal of “out of spec” material for reprocessing or disposal, a second set of distinctively coloured cylinders can be used.
- **SF₆ gas cart hire**

This service allows contractors/ power company maintenance teams to undertake work themselves.

🌸 BOC's contract services

BOC can provide a service engineer and equipment to carry out any of the BOC SF₆ services e.g. leak detection checks, gas analysis, decant or recovery on site at customer locations.

This service is offered to all utility companies. It is especially useful for those companies that don't have their own gas carts or need to peak shave a particular maintenance programme.

In situations that require the recovered SF₆ to be reprocessed, BOC can assure customers that the task will be carried out in compliance with all regulations. The SF₆ will be analysed in accordance with BS5209 (IEC 60480) and either passed for re-use, processed for recycling or sent for high temperature incineration. BOC is licensed by the Environment Agency to transport and reprocess SF₆. The processes used have the highest regards for the protection of individuals, property and the environment.

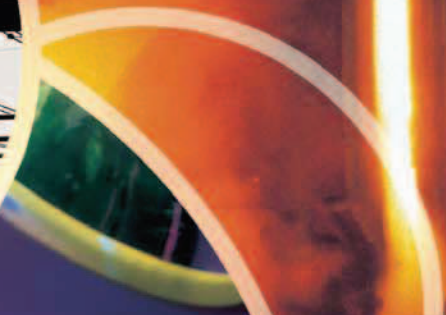
We will also offer to buy back under-utilised gas carts. This releases capital tied up in equipment and eliminates the need to maintain equipment.

🌸 Equipment at the end of its service life

As a special feature of BOC's contract services, BOC can quote for removing and scrapping high voltage devices that contain SF₆. This usually applies to equipment that has reached the end of its service life. Normally it is organisations that do not have a maintenance team associated with this activity that require this service.



To learn more about BOC's SF₆ recovery service and how it could benefit your business and our environment please call us free on 0800 02 0800





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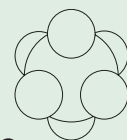
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