

Marking

CAS-Number 2551-62-4

Characterization acc. ADR UN 1080, Sulphur hexafluoride, 2.2 Class 2, 2 A

Cylinder Marking

shoulder:
light green

Essential properties

Colourless, odorless, asphyxiant gas, liquified, heavier than air

Symbols of Risks

gas, liquified

Physical Properties

molecular weight: 146,05 kg/kmol
 gas density at 0°C and 1,013 bar: 6,626 kg/m³
 density ratio to air: 5,125
 vapour pressure at 20°C: 21,080 bar

For additional safety information see Material-/safety data sheet No. *-SF6-110

Valves / Manifolds

Valve connection acc. to national standards

Recommended Manifolds Spectrolab FM 51 / FM 52exact

**Specifications / Forms of delivery**

		3.0	UHP	
Composition				
SF ₆	>	99,9	99,998	Gew.-%
Impurities				
air gases	<	500	-	ppmw
H ₂ O	<	10	2	ppmw
CF ₄	<	500	5	ppmw
HF	<	1	0,1	ppmw
O ₂	<	-	5	ppmv
N ₂	<	-	5	ppmv
Cylinders / Contents				
F 10		10,0	10,0	kg
F 40		-	40,0	kg
F 50		52,0	-	kg

Remarks

Applications:
 Insulating gas in high voltage circuit breakers, switchgear, and other electrical equipment
 Insulating gas in high voltage supplies of particle accelerators and high voltage transmission electron microscopes
 Cooling gas in eye surgery (laser treatment)

Sulphur hexafluoride is a greenhouse gas acc. to EU 517/2014, annex 1, group 3.
 GWP = 22.800