

SULFUR HEXAFLUORIDE



Manufacturer:
"HaloPolymer Perm", OJSC
QMS for production is certified:
ISO 9001:2015 Certificate Registration
No.: 12 100 55860 TMS

Synonyms: SF₆, Elagas, Esaflon, Sulfur(VI) fluoride, Sulfuric fluoride
Chemical formula: SF₆
CAS Number: 2551-62-4
EC Number: 219-854-2
HS code: 2812900000



Sulfur Hexafluoride is an extremely potent and persistent man-made greenhouse gas that is inorganic, colorless, odorless, non-flammable, and non-toxic.

PROPERTIES	UNITS	GUARANTEED VALUE	LIMIT OF DETECTION IN PPM	TEST METHODS
Mass content of Sulfur hexafluoride	%, min	99.9	-	Gas chromatography
Mass content of impurities: oxygen, nitrogen, air (total) tetrafluoromethane	%, max	0.05 0.05	10 ppmW	Gas chromatography
Mass content of water	%, max	0.0015	1 ppmW	Coulometry
Acidity as mass content of hydrogen fluoride	%, max	0.00003	<1 ppmW	Titration
Mass content of hydrolyzed fluoride as mass content of hydrogen fluoride	%, max	0.0001	<1 ppmW	Titration
Toxicity		Non toxic		White mice biological test
Volume content of S₂F₁₀			2 ppmV	Infrared
Volume content of SO₂F₂			3 ppmV	Infrared
Volume content of SOF₂			10 ppmV	Infrared
Mass content of mineral oil			2 ppmV	Infrared

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Main applications:

- in the electrical engineering industry as a dielectric;
- in the electronics industry – as a process medium;
- in the production process of plasma-chemical etching;
- as a fire extinguishing agent.



Package:

The product is poured into the cylinders or containers of national or foreign production, examined in accordance with the rules of design and safe operation of pressure vessels, designed for using at the operating pressure of not less than 5 MPa.



Transportation:

The product should be transported in covered railway cars or in general-purpose containers by motor transport according to the Rules for Carriage of Goods being in force for this kind of transport and according to the Rules for Design and Safe Operation of Pressure Vessels.



Safety and Handling:

- should be stored in warehouse premises in accordance with the Rules for Design and Safe Operation of pressure Vessels;
- handle in well-ventilated areas;
- eye and skin contact must be avoided;
- smoking is prohibited;
- store away from heat and sunlight, keep in the clean and dry area.

Before using sulfur hexafluoride please read the Material Safety Data Sheet carefully.



Guarantee storage life:

Guaranteed shelf life is 5 years from the date of manufacture.