

SULFUR HEXAFLUORIDE



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC
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	TEST METHODS
Mass content of Sulfur hexafluoride, min	%	99.995	Gas chromatography (internal company standard)
Mass content of impurities: oxygen, nitrogen, air (total), max	%	0.05	Gas chromatography (internal company standard)
Tetrafluoromethane mass fraction, max	%	0.001	Gas chromatography (internal company standard)
Mass fraction of water, max	ppmw	15	Sorption-capacitive method (internal company standard)
Acidity, on hydrogen fluoride mass fraction basis, max	%	0.0001	Potentiometry (internal company standard)
Hydrolyzable fluorides mass fraction, on hydrogen fluoride mass fraction basis, max	ppmw	0.1	Titration (internal company standard)
Hydrolyzable fluorides mass fraction, on hydrogen fluoride mass fraction basis, max	ppmw	1	Potentiometry (internal company standard)
Mineral Oil content, max	ppmw	10	Photometry (internal company standard)
Mass fraction of the sum of dioxide and sulfur tetrafluoride on sulfur dioxide basis, max	ppmw	1	Photometry (internal company standard)
Toxicity		Non toxic	White mice biological test

* A sample is collected from liquid phase (bottom point of the container) through the adapter into the cylinder capacity of 0.4 dm³ minimum.

** The parameters are indicated according to the Technical Specifications (the TU), because the manufactured products are analyzed in accordance with the TU (internal company standard). The procedure of sample preparation differs from that in ASTM, ISO, DIN.

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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 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.