

SULFUR HEXAFLUORIDE



Manufacturer:

“HaloPolymer Kirovo-Chepetsk”, LLC

QMS for production is certified:

ISO 9001:2015 Certificate Registration

No.: 12 100 55860 TMS

Synonyms:	SF ₆ , Elagas, Esaflon, Sulfur(VI) fluoride, Sulfuric fluoride
Chemical formula:	SF ₆
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	%	99.99	Gas chromatography (internal company standard)
Mass content of impurities, max: oxygen, nitrogen, air (total) tetrafluoromethane mass fraction	%	0.01	
Mass fraction of water, max	%	0.005	Sorption-capacitive method (internal company standard)
Acidity, on hydrogen fluoride mass fraction basis, max	%	0.00003	Titration (internal company standard)
Hydrolyzable fluorides mass fraction, on hydrogen fluoride mass fraction basis, max	%	0.0001	Potentiometry (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.



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.

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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.