

HYDROGEN FLUORIDE

anhydrous



Manufacturer:
"HaloPolymer Perm", OJSC

QMS for production is certified: ISO 9001:2015
Certificate Registration No.: 12 100 55860 TMS

Synonyms: Anhydrous hydrofluoric acid; AHF; Hydrofluoric acid gas; Fluorine hydride
Chemical formula: HF
CAS number: 7664-39-3
EC number: 231-634-8
HS code: 28111190



At the temperature of below 19.5°C, AHF is a transparent colourless liquid with strong irritating odour, fumes in the air. The gas is heavier than air. Generates fire and explosion hazard. Reacts violently with bases and is corrosive to most common metals forming a flammable/explosive gas (H₂). Attacks glass, some forms of plastic, rubber and coatings. It is non-combustible, explosion-proof and chemically stable under normal operating conditions.

PROPERTIES	UNITS	GUARANTEED VALUE	
		Grade A	Grade B
Mass fraction of hydrogen fluoride	%, min	99.95	99.90
Mass fraction of moisture	%, max	0.03	0.06
Mass fraction of reducing agents as SO ₂	%, max	0.007	0.015
Mass fraction of sulphuric acid	%, max	0.005	0.020
Mass fraction of fluorosilicic acid	%, max	0.01	0.02



Main applications:

- AHF is an important raw material for the production of fluorine-containing compounds, certain organic products, refrigerants and for the organic and inorganic synthesis.
- It is also used in the manufacture of stainless steel and aluminum.
- High purity gas is a high selective etching agent for SiO₂.



Package:

40 and 50 dm³ steel cylinders, 800 dm³ containers, railroad tank cars.
UN Hazard Class: 8; UN Subsidiary Risks: 6.1; UN Pack Group: I



Safety and Handling:

- Handle in roofed warehouses, where ventilation is along the floor;
- Dangerous! Eye and skin contact must be avoided;**
- Store separated from food and feedstuffs and incompatible materials;
- Store away from heat, keep in clean and dry area.

Before using AHF please read the Material Safety Data Sheet carefully.



Guarantee storage life:

5 years from the date of manufacture.