

Fluorides & Chemicals

COA for Ammonium Bifluoride

Product name	Ammonium Bifluoride
Chemical Formula	NH_4HF_2
Molecular weight	57
Colour	White crystals
Melting point	126 C(Sublimes at higher temperature)
Specific gravity	1.50 In water at 20C 60.2 g/100g H2O and at 60 C 156.4 g/100g H2O. When ABF is dissolved in water cooling takes place.

Hygroscopic at 50% Humidity

Typical Analysis	Typical Specification (Technical grade) %
NH_4HF_2	98
$(\text{NH}_4)_2\text{SO}_4$	0.5
$(\text{NH}_4)_2\text{SiF}_6$	1.0
IRON	0.01

Applications:

- Bactericide in sugar industry for checking the invisible loss of sugar due to bacteria
- Constituent in chemical cleaning of boilers and evaporators
- Oil well acidizing
- Anodising of aluminium. Also for decorative finishes
- As a laundry sour for the removal of iron stains.
- Glass and electric lamp bulb industry, as an ingredient of the etching mixture.
- Additive to sand in the process of casting magnesium
- Wood preservation
- Cleaning of buildings