

## Certificate of Analysis

Date of Testing: 2022-07-04 17:02:43

Date of Next Testing: 2023-07-04 17:02:43

Product Name: **Ammonium fluoride**

CAS Number: 12125-01-8(Water)

Specifications & Purity: 40% solution , electronic grade

Lot #: F2229011

SKU #: **A111760**

**Analysis:** **104605**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Color Test	0-10	4.00
Nickel(Ni)	0-10 (ppb)	0.10 ppb
Chloride (Cl-)	0-2 (ppm)	0.01 ppm
Manganese(Mn)	0-10 (ppb)	0.10 ppb
Calcium(Ca)	0-10 (ppb)	0.60 ppb
Potassium(K)	0-10 (ppb)	0.10 ppb
Magnesium(Mg)	0-10 (ppb)	0.01 ppb
Sodium(Na)	0-10 (ppb)	0.01 ppb
Lithium(Li)	0-10 (ppb)	0.02 ppb
Lead(Pb)	0-10 (ppb)	0.10 ppb
Iron(Fe)	0-10 (ppb)	0.20 ppb
Aluminum(Al)	0-10 (ppb)	0.40 ppb
Copper(Cu)	0-10 (ppb)	0.10 ppb
Chromium(Cr)	0-10 (ppb)	0.10 ppb
Assay	39-41 (%)	40.14 %
Cobalt(Co)	0-10 (ppb)	0.02 ppb
Silver (Ag)	0-10 (ppb)	0.10 ppb
Phospate(PO4)	0-0.2 (ppm)	0.00 ppm
(NO3)Nitrate	0-3 (ppm)	0.00 ppm
Molybdenum(Mo)	0-10 (ppb)	0.03 ppb
PH(1% in Water,25°C)	6.5-7	6.60
Cadmium(Cd)	0-10 (ppb)	0.10 ppb
Sulfate(SO42-)	0-1 (ppm)	0.00 ppm
particle(≥0.5um)	0-100 (ea/ml)	6.50 ea/ml
Zinc(Zn)	0-10 (ppb)	0.10 ppb
particle(≥1.0um)	0-25 (ea/ml)	1.00 ea/ml



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager