

Certificate of Analysis

Date of Testing: 2024-03-15 15:57:19

Date of Next Testing: 2025-03-15 15:57:19

Product Name: **Ammonium fluoride**

CAS Number: 12125-01-8(Water)

Specifications & Purity: 40% solution , electronic grade

Lot #: I2201215

SKU #: **A111760**

Analysis: **331563**

Storage Temperature: Room temperature

| Parameter | Limit Values | Result |
|----------------------|---------------|-------------|
| Color Test | 0-10 | 4.00 |
| Nickel(Ni) | 0-10 (ppb) | 0.01 ppb |
| Chloride (Cl-) | 0-2 (ppm) | 0.01 ppm |
| Manganese(Mn) | 0-10 (ppb) | 0.02 ppb |
| Calcium(Ca) | 0-10 (ppb) | 0.20 ppb |
| Potassium(K) | 0-10 (ppb) | 0.01 ppb |
| Magnesium(Mg) | 0-10 (ppb) | 0.32 ppb |
| Sodium(Na) | 0-10 (ppb) | 0.01 ppb |
| Lithium(Li) | 0-10 (ppb) | 0.02 ppb |
| Lead(Pb) | 0-10 (ppb) | 0.02 ppb |
| Iron(Fe) | 0-10 (ppb) | 0.10 ppb |
| Aluminum(Al) | 0-10 (ppb) | 0.03 ppb |
| Copper(Cu) | 0-10 (ppb) | 0.10 ppb |
| Chromium(Cr) | 0-10 (ppb) | 0.03 ppb |
| Assay | 39-41 (%) | 40.32 % |
| Cobalt(Co) | 0-10 (ppb) | 0.02 ppb |
| Silver (Ag) | 0-10 (ppb) | 0.01 ppb |
| Phosphate(PO4) | 0-0.2 (ppm) | 0.01 ppm |
| (NO3)Nitrate | 0-3 (ppm) | 0.01 ppm |
| Molybdenum(Mo) | 0-10 (ppb) | 0.05 ppb |
| PH(1% in Water,25°C) | 6.5-7 | 6.80 |
| Cadmium(Cd) | 0-10 (ppb) | 0.02 ppb |
| Sulfate(SO42-) | 0-1 (ppm) | 0.01 ppm |
| particle(≥0.5um) | 0-100 (ea/ml) | 19.36 ea/ml |
| Zinc(Zn) | 0-10 (ppb) | 0.02 ppb |
| particle(≥1.0um) | 0-25 (ea/ml) | 1.28 ea/ml |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager