

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-12 19:30:58

Date of Next Testing: 2027-04-11 19:30:58

Product Name: **Nafion™ perfluorinated resin solution**

CAS Number: 31175-20-9(Water)

Specifications & Purity: Polymer Content:5.0-5.4%,Water Content:42-48%,VOC Content:47-53%,Total Acid Capacity:1.03-1.12meq/g

Lot #: D2306089

SKU #: **P400486**

Version: **1**

Analysis #: **077848**

Storage Temperature: Store at 2-8°C

| Parameter | Limit Values | Result |
|-----------------------------------|-----------------------|-----------------------|
| Water by Karl Fischer | 42-48 (%) | 45.90% |
| Assay(Perfluorosulfonic Acid/TFE) | 5-5.4 (%) | 5.30000% |
| 1-Propanol | 45-51 (%) | 47.40000% |
| (meq/g) H+Available Acid Capacity | > 1 | 1.04000 |
| (meq/g) H+Total Acid Capacity | 1.03-1.12 | 1.04000 |
| Viscosity(25°C,CP) | 10-40 | 11.00000 |
| Appearance(P400486) | Colorless Liquid | Colorless liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager