

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-04-22 09:36:49

Date of Next Testing: 2026-04-21 09:36:49

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

CAS Number: 31175-20-9(Water)

Specifications & Purity: Polymer Content:20.0-22.0%,Water Content:32-36%,VOC Content:44-48%,Total Acid Capacity:0.95-1.03meq/g

Lot #: D2219119

SKU #: **P400427**

Version: **1**

Analysis #: **077558**

Storage Temperature: Store at 2-8°C

| Parameter | Limit Values | Result |
|-----------------------------------|--|--|
| Water by Karl Fischer | 32-36 (%) | 34.60% |
| Assay(Perfluorosulfonic Acid/TFE) | 20-22 (%) | 21.30000% |
| Propanol | 42-46 (%) | 43.50000% |
| (meq/g) H+Available Acid Capacity | >0.92 | 0.97000 |
| (meq/g) H+Total Acid Capacity | 0.95-1.03 | 0.97000 |
| Viscosity(25°C,CP) | 50-500 | 147.00000 |
| Appearance(P400427) | Colorless to Yellow,Clear to Hazy Liquid | Colorless to Yellow,Clear to Hazy Liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager