

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-04-22 16:15:30

Date of Next Testing: 2026-04-21 16:15:30

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 #: D2219111

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