

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-08 16:21:54

Date of Next Testing: 2027-12-07 16:21:54

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:0.95-1.03meq/g

Lot #: L2305177

SKU #: **P400491**

Version: **1**

Analysis #: **079567**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	42-48 (%)	42.70%
Assay(Perfluorosulfonic Acid/TFE)	5-5.4 (%)	5.10000 %
1-Propanol	45-51 (%)	50.60000 %
(meq/g) H+Available Acid Capacity	>0.92	0.97000
(meq/g) H+Total Acid Capacity	0.95-1.03	0.98000
Viscosity(25°C,CP)	10-40	16.00000
Appearance(P400491)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager