



TEST CERTIFICATE: APT-TC-220914-01

Standard: API 6A 21st Edition Annex F.1.13.5.2
Material: Arlon 1000
Status: Qualified

Issued To: Greene Tweed & Co.
2075 Detwiler Road, Kulpsville, PA 19443
December 23, 2022

Qualification Statement:

The Arlon 1000 compound is qualified to API 6A 21st Edition according to Annex F.1.13.5.2 immersion testing for material class FF/HH 10% H2S design validation procedures meeting NORSOK M-710 Ed. 3 and ISO 23936-2:2011 sour aging acceptance criteria.

Qualification Parameters	
35% Gas	10% H2S / 80% CO2 / 10% CH4
60% Hydrocarbon	Kerosene (Diesel #1)
5% Water	Distilled Water
Exposure	To the liquid hydrocarbon phase
Pressure	1000 ± 100 psi
Duration	160 hours
Temperature	392°F (200°C)

Acceptance Criteria		
Property	Criteria	Result
Volume	+5% / -1%	Met
Tensile Strength	±50%	Met
Elong. at Break	± 50%	Met
Young's Modulus	± 50%	Met
Visual Inspection	No Dissolution, cracking, blistering, physical deformation	Met

Prepared By: Kevin Ballard

Kevin Ballard
Principal Scientist

Approved By: Nick Plasket

Nick Plasket
Staff Technologist



Alpine Polytech
1325 Ranchers Legacy Trail, Fort Worth, TX 76126
Accredited to: ISO/IEC 17025:2017, Field of Accreditation: Mechanical Testing