



TEST CERTIFICATE: APT-TC-190329-03

Standard: API 6A 21st Edition Annex F.1.13.5.2
Material: HNBR H3385
Status: Qualified

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Qualification Statement: The HNBR H3385 elastomer 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 ISO 23936-2:2011 sour aging acceptance criteria.

Qualification Parameters	
Gas 35%	10% H2S / 80% CO2 / 10% CH4
Hydrocarbon 60%	Kerosene (Diesel #1)
Water 5%	Water
Exposure	To the hydrocarbon phase
Pressure	1000 ± 100 psi
Duration	160 hours
Temperature	302°F (150°C)

Acceptance Criteria		
Property	Criteria	Result
Hardness	+10/-20 units	Pass
Volume	+25 / -5 %	Pass
Tensile Strength	± 50%	Pass
Elong at Break	± 50%	Pass
50% Modulus	± 50%	Pass

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