



VULCANLABS

Ferox-25 AUTOCLAVE TESTING

Autoclave tests were performed to duplicate reported well conditions in order to demonstrate Ferox-25's ability to resist a variety of conditions. The test coupons were subjected to various test conditions and the results are shown below. All test coupons passed the test conditions successfully with no evidence of concern in any area.

Autoclave Test Parameters

Test Conditions 1:

- 225°F (107°C)
- 11.7 Mpa (2000 psig)
- 3% H₂S, 6% CO₂, 91% CH₄
- 50:50 Toluene: Kerosene mixture
- 15% NaCl solution in deionized water
- 96 hour test phase

Test Results 1:

- No color change
- No softening
- No change in porosity
- No corrosion
- Adhesion retained
- No under creeping

Test Conditions 2:

- 300°F (150°C)
- 25.5 Mpa (4000 psig)
- 4% H₂S, 7% CO₂, 90% CH₄
- 50:50 Toluene: Kerosene mixture
- 4% NaCl solution in deionized water
- 96 hour test phase

Test Results 2:

- Slight color change
- No softening
- No change in porosity
- No corrosion
- Adhesion retained
- No under creeping
- Coating integrity in gas, hydrocarbon and aqueous phases

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