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Ketaspire® KT-820 NT and Norsok M-710 and ISO 23936 Test Results

Molded tensile test specimens produced from Solvay supplied Ketaspire® KT-820 NT were evaluated by Alpine PolyTech, an ISO 17025 accredited laboratory.

Ketaspire® KT-820 NT is qualified to Norsok M710 Revision 3 & ISO 23936-1:2011 sour multi-phase fluid aging for high 20 % H2S classification A.3.iii per the test report.

The testing evaluated 50% property change for tensile strength, modulus, elongation at break and specific gravity and a 5% change in volume. The conditions included an initial pressure of 6 MPa (870 psi) at 230°C for up to 56 days, at 245°C for up to 35 days and at 260°C for up to 7 days, after saturation at 260°C for 2 days in liquids only. The test solution used was 60% by volume liquid (70% heptane / 20% cyclohexane / 10% toluene) A.1.ii, 10% by volume water, and 30% by volume gas phase (20% H2S / 5% CO2 / 75% CH4) A.3.iii (bespoke). Life times at 200°C were estimated on this material and several competitive materials using Arrhenius methods specified in ISO 23936-2:2011.

The study demonstrated that Ketaspire® KT-820 NT withstood the severe conditions used in this study better than competitive materials.

Sincerely

A handwritten signature in black ink that reads 'Girish Grover'.

Girish Grover
Product Engineer

cc: Mahesh Padigala, Product Manager
William Hamm, Customer Technical Development Engineer