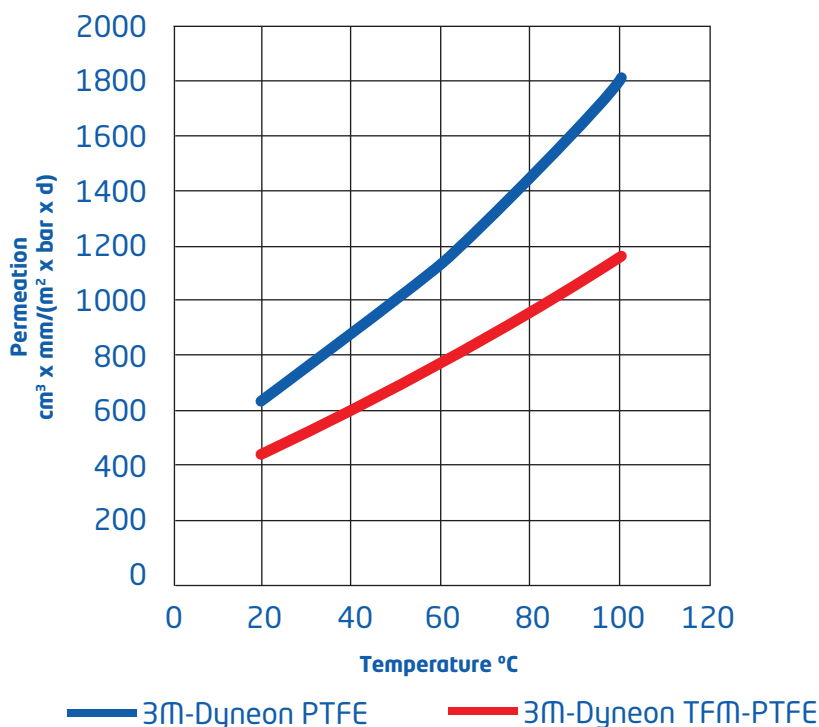


Ultra-HiPerFlon®



the corrosion expert

Permeation with HCL-Gas



Permeation test data received by Dyneon, measured acc. to DIN53380

For many decades the process industry's ultimate solution for corrosion resistant pipework has been paste extruded PTFE lined spools, in combination with PFA lined fittings. For most duties this system has worked extremely well providing long life reliable piping systems. However, a weakness of the system has been the PTFE's ability to handle hot permeant media such as HCl, HF, Chlorine and Nitric Acid. In such duties the media has been able to gradually permeate through the PTFE, leading to blistering on the inner surface of the liner and (if not handled correctly) corrosion of the steel housing, resulting in reduced product lifetime.

The Solution

Ultra-HiPerFlon® is a recently developed second generation modified paste extruded PTFE (TFM) liner. Since its development it has proven through both laboratory and field testing to have a significantly improved performance in resisting the permeation of media that previously only PFA linings were able to withstand.

The chart demonstrates the clear benefits that Ultra-HiPerFlon® provides in comparison with traditional paste extruded PTFE, benefits which actually increase at elevated temperatures.

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