CASE STUDY:

SEALEX expanded PTFE exceeds pure elastomer sealing products in exchangers and chillers

BACKGROUND

A university in southern Florida operates one of the largest ice thermal energy storage systems in the US. The campus's central energy plant supplies chilled water for cooling throughout the 300+ acre campus. The segmented rubber gaskets installed in the large compound chillers were experiencing leaks caused by a number of factors including over and uneven gasket compression, improper gasket installation and deteriorating sealing surfaces. Ultimately, the system was losing raw material, power and efficiencies.

SOLUTION

The 55" ID x 62" OD leaking neoprene gasket was replaced with KLINGER Thermoseal's SEALEX PTFE Joint Sealant. SEALEX is a universal form-in-place gasket material made from 100% pure expanded PTFE. It is soft, pliant and highly compressible yet resists creep relaxation after bolt load is applied. SEALEX is an excellent solution for damaged or deteriorating sealing surfaces as it fills flange surface irregularities.

BENEFITS + RESULTS

SEALEX is available on rolls in continuous lengths. The form-in-place solution eliminates the need to dove-tail large gaskets. As opposed to traditional gaskets, die cutting fabrication is not needed. The self-adhesive strip ensures easy installation directly on the flange face.

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