Comparison of High Temperature Resistance and Selection Guide for Cold Joints

An extensive numerical investigation was performed in this study to investigate the elevated temperature joint resistances (Nf,T) of cold-formed high strength steel (CFHSS) SHS and ...

High temperatures can weaken materials, lead to deformation and accelerate wear, while extreme cold can make materials brittle and prone to cracking. To mitigate these challenges, ...

The VitonTM Application Guide (Table 5) has been designed to facilitate choice of the type of VitonTM that is best suited for meeting both the property requirements of the intended end use and the needs ...

The study compares different metallic alloys" performance at high temperatures and explores the critical role of corrosion resistance in material selection for high-temperature applications.

To better understand the behaviour of cold joints subjected to these thermal fatigue cycles, an experimental program was conducted at the University of Manitoba, focusing on the performance ...

The right selection of the material is a fundamental parameter when designing the bellows and other parts of an Expansion Joint, and becomes even more important in high temperature applications ...

In this comprehensive guide, we delve into the properties, benefits, and drawbacks of various heat-resistant plastics and metals, as well as cutting-edge composites. How do materials like ...

Comparison of common high temperature bolting materials used on flanges, valves, and pressure equipment. If you are reviewing the full joint rather than the stud alone, see our related ...

The post-fire structural performance of cold-formed high strength steel (CFHSS) T- and X-joints with circular hollow section (CHS) braces and square and rectangular hollow section (SHS and ...

Below are the five critical mistakes engineers make when selecting high temperature expansion joint material--and how to make sure you don"t fall into the same traps.

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