



H₂ Production Sulfur-Iodine Thermochemical Process

General Information

Customers: General Atomics
KIER (Korean Institute of Energy)

Products: Reactors, valves, fittings, instrm
Application: H2 production
Market: Next Generation Energy

Problem

The sulfur-iodine thermochemical process is the most efficient way to split water in the H₂. The problem with this process is that it is extremely corrosive and at high temperatures. A combination of hydroiodic, sulfuric and phosphoric acids are used at over 250C.

Solution

Tantaline treated valves, fittings, instrumentation, vessels, and pumps were used in this application.

Result

Tantaline was the only material capable of meeting the challenges of this aggressive environment and has been the enabling technology for the sulfur-iodine thermochemical process.

Video – See Case Study

Video - See Performance Testimonials



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Research**

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