

N245. Iron-Based Alloy Testing in BWR Chemistries

Tests of iron-based alloys in gate valves under simulated BWR coolant chemistry conditions were completed at Atomic Energy of Canada. The NOREM, EB5183 and Everit 500 alloys all matched or exceeded the wear performance of the cobalt-based Stellite 6 standard. However, the EB5183 alloy suffered localized pitting damage, making it less attractive for long-term BWR applications.

Taken from "Iron-Based Alloy Testing in BWR Chemistry," by Howard Ocken, Radiation Control News, December 1992, No. 16. (Electric Power Research Institute, 3412 Hillview Avenue, Palo Alto, CA 94303)