

Korelasi antara persen kandungan Si dengan laju korosi dalam uapa air pada ingot paduan Zr - 1,5 w%Nb - Si

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Abstrak

Correlation between silicon content and in-steam corrosion rate of Zr 1.5WT%-Si Ingot. Silicon is normally added in a small amount to a Zr - alloy to improve its corrosion resistance without having to sacrifice its neutronic property. An excessive amount of silicon addition is known to have caused faster corrosion rate. The objective of this research was to observe the effect of silicon content on the corrosion rate of Zr - 1.5wt%Nb-Si ingot. The ingot specimens had various silicon contents of 0.1 wt%, 0,2 wt% and 0.25wt%. All them were annealed at 400 oc, 600 oC and 800 oC for four and six hours. The corrosion test was conducted in an autoclave at 8 bars and 350 oC for 8, 15 and 24 hours...