

ABSTRACT

The present invention provides a heat-resistant alloy that is excellent in nitriding resistance and high-temperature creep rupture strength. The heat-resistant alloy of the present invention comprises, in mass %, C: 0.2% to 0.6%, Si: greater than 0% to 2.5% or less, Mn: greater than 0% to 2.0% or less, P: 0.03% or less, S: 0.03% or less, Ni: 33.0% to 50.0%, Cr: 24.0% to 50.0%, with the remainder being Fe and impurities, and optionally including: Nb: greater than 0% to 1.8% or less, Rare Earth Elements: greater than 0% to 0.5% or less, Ti: greater than 0% to 0.5% or less and/or Zr: greater than 0% to 0.5% or less, W: greater than 0% to 2.0% or less and/or Mo: greater than 0% to 0.5% or less.

Fig. 2