

ABSTRACT

Provided is a high strength and high corrosion-resistance Ni-based alloy having excellent hot forgeability, which is suitable for a member for oil drilling, the Ni-based alloy having a composition consisting of, by mass%, 42.1 to 45.5% of Cr, 0.5 to 2.5% of Nb, 1.2 to 2.0% of Ti, 0.0001 to 0.0090% of Mg, 0.001 to 0.040% of N, 0.01 to 0.50% of Mn, 0.001 to 0.050% of Si, 0.01 to 1.00% of Fe, 0.01 to 2.50% of Co, 0.001 to less than 0.500% of Cu, 0.001 to 0.050% of Al, 0.005 to less than 0.100% of V, 0.0001 to 0.0100% of B, 0.001 to 0.050% of Zr, and the balance of Ni with inevitable impurities, and the composition preferably further consists of any one of 0.1 to 1.5% of Mo, 0.1 to 1.5% of W, 0.001 to less than 0.050% of Ca, and 0.001 to less than 0.050% of Ta.