

HASTELLOY[®] G-30[®] alloy

Resistance to Pitting and Crevice Corrosion

Various chloride-bearing environments, notably Green Death (11.5% H₂SO₄ + 1.2% HCl + 1% FeCl₃ + 1% CuCl₂) and Yellow Death (4% NaCl + 0.1% Fe₂(SO₄)₃ + 0.021M HCl), have been used to compare the resistance of nickel alloys to pitting and crevice attack (using tests of 24 hours duration). In Green Death, the lowest temperature at which pitting has been observed in G-30[®] alloy is 55°C, and the lowest temperature at which crevice corrosion has been observed is 45°C. In Yellow Death, the corresponding temperatures are 55°C and 25°C.