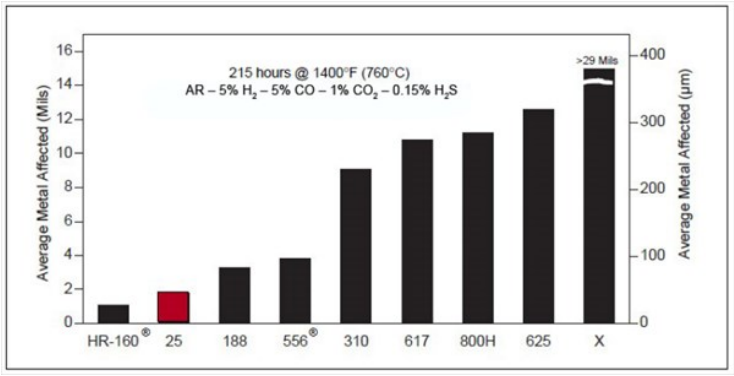
HAYNES® 25 alloy

Sulfidation Resistance

Sulfidation Resistance at 1400°F (760°C)

HAYNES® 25 alloy has very good resistance to gaseous sulfidation environments encountered in various industrial applications. Tests were conducted at 1400°F (760°C) in a gas mixture consisting of AR – 5% H_2 – 5% CO – 1% CO_2 – 0.15% H_2S, balance Ar. Coupons were exposed for 215 hours. This is a severe test, with equilibrium sulfur partial pressure of 10^{-6} to 10^{-7} and oxygen partial pressures less than that needed to produce protective chromium oxide scales.



Schematic Representation of Metallographic Technique Used for Evaluating Environmental Tests