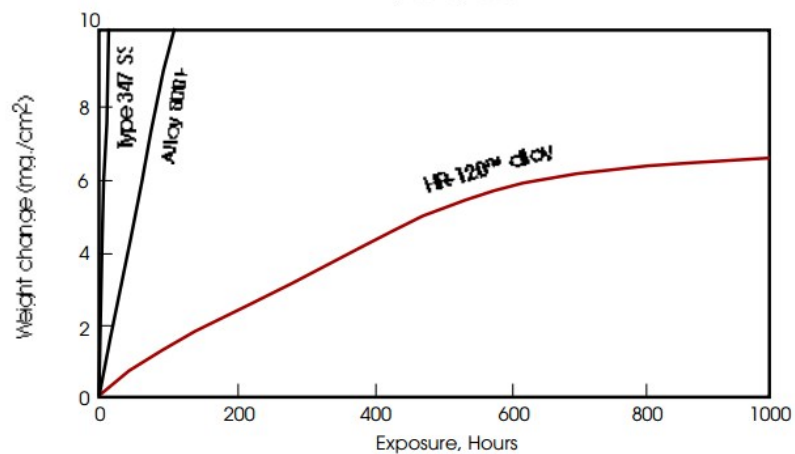
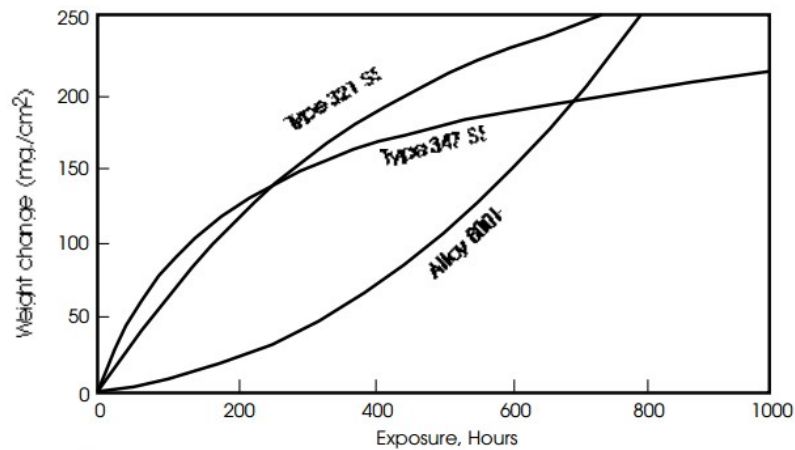


# HAYNES<sup>®</sup> HR-120<sup>®</sup> alloy

## Comparative Sulfidation Resistance

Independent outside testing laboratories have also verified the superior performance of HR-120<sup>®</sup> alloy in sulfidizing environments. Petten Establishment in the Netherlands found that HR-120<sup>®</sup> alloy performed significantly better than alloys 800H, 347SS and 321SS at 1290°F (700°C) in hydrogen plus 7 percent carbon monoxide plus 1.5 percent water vapor plus 0.6 percent hydrogen sulfide. The HR-120<sup>®</sup> alloy was found to be magnitudes better than the other alloys.



$H_2+7\%CO+1.5\%H_2O+0.6\%H_2S$  at 1290°F (700°C)  
 $P_{O_2}=1 \times 10^{-23}$  atm.  
 $P_{S_2}=1 \times 10^{-9}$  atm.  
 $a_c=0.3-0.4$

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