HAYNES® HR-160® alloy

Chloridation Resistance

High-temperature Chloride Vapor Corrosion

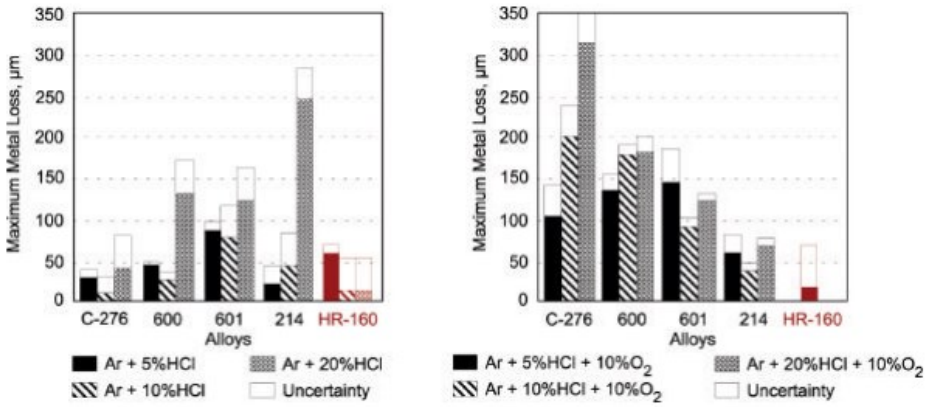
Ar-20%O_2-2%H_2O-0.05%NaCl (Vol.%) 1830°F (999°C) for 75 hours

Alloy	Total Depth Of Attack	
	mils	mm
214®	11.5	0.29
HR 160®	**12.0**	**0.31**
800H	>62.0 (complete penetration)	

Exposure to Chloride Vapors at 1600°F (871°C)

Field tests were conducted by exposing specimens to air containing vapors of sodium chloride, potassium chloride and barium chloride at 1600°F (871°C) for 173 hours.

Chlorination Resistance



Maximal loss of sound metal per side. Laboratory tests in chlorinating atmospheres at 1112°F (600°C) for 500 hours.*

Maximal loss of sound metal per side. Laboratory tests in oxychlorinating atmospheres at 1112°F (600°C) for 500 hours.*

*Data from "Corrosion Studies and Recommendation of Alloys for an Incinerator of Glove-Boxes Wastes" by F. Devisme and N. H. Garnier, Presented at the 11th International Incineration Conference 1992, May 11-15, 1992, Albuquerque, New Mexico.