

# HAYNES<sup>®</sup> 230<sup>®</sup> alloy

## Nitriding Resistance

HAYNES<sup>®</sup> 230<sup>®</sup> alloy is one of the most nitriding resistant materials commercially available. Tests were performed in flowing ammonia at 1200°F (650°C) and 1800°F (980°C) for 168 hours. Nitrogen absorption was determined by chemical analysis of samples before and after exposure and knowledge of the exposed specimen area.

Alloy	Nitrogen Absorption (mg/cm <sup>2</sup> )		
	1200°F (649°C)	1800°F (982°C)	2000°F (1093°C)
<b>230<sup>®</sup></b>	<b>0.7</b>	<b>1.4</b>	<b>1.5</b>
<b>600</b>	0.8	0.9	0.3
<b>625</b>	0.8	2.5	3.3
<b>X</b>	1.7	3.2	3.8
<b>RA330<sup>®</sup></b>	-	3.9	3.1
<b>800H</b>	4.3	4.0	5.5
<b>316 SS</b>	6.9	6.0	3.3
<b>310 SS</b>	7.4	7.7	9.5
<b>304 SS</b>	9.8	7.3	3.5