

HAYNES[®] 230[®] alloy

Nitriding Resistance

HAYNES[®] 230[®] 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 ²)		
	1200°F (649°C)	1800°F (982°C)	2000°F (1093°C)
230[®]	0.7	1.4	1.5
600	0.8	0.9	0.3
625	0.8	2.5	3.3
X	1.7	3.2	3.8
RA330[®]	-	3.9	3.1
800H	4.3	4.0	5.5
316 SS	6.9	6.0	3.3
310 SS	7.4	7.7	9.5
304 SS	9.8	7.3	3.5