

HAYNES[®] 242[®] alloy

Resistance to Salt Spray Corrosion

HAYNES[®] 242[®] alloy exhibits good resistance to corrosion by sodium-sulfate-containing sea water environment at 1200°F (650°C). Tests were performed by heating specimens to 300°F (150°C), spraying with a simulated sea water solution, cooling and storing at room temperature for a week, heating to 1200°F (650°C) for 20 hours in still air; cooling to room temperature, heating and spraying again at 300°F (150°C), and storing at room temperature for a week.

Alloy	Metal Loss		Maximum Metal Affected	
	mils	µm	mils	µm
S	0.10	2.5	0.20	5.1
242[®]	0.15	3.8	0.30	7.6
B	0.20	5.1	0.30	7.6
909	0.40	10.2	0.20	30.5