

# MULTIMET<sup>®</sup> alloy

## Hot Corrosion Resistance

### Hot Corrosion Burner Rig

Hot Corrosion Resistance at 1650°F (900°C)

Alloy	5 ppm Salt, 200 Hours				50 ppm Salt, 200 Hours				5 ppm Salt, 1000 Hours			
	Metal Loss		Average Metal Affected		Metal Loss		Average Metal Affected		Metal Loss		Average Metal Affected	
	mils	µm	mils	µm	mils	µm	mils	µm	mils	µm	mils	µm
<b>MULTIMET<sup>®</sup></b>	<b>1.8</b>	<b>46</b>	<b>3.7</b>	<b>94</b>	<b>1.8</b>	<b>46</b>	<b>4.2</b>	<b>107</b>	<b>1.8</b>	<b>46</b>	<b>5.4</b>	<b>137</b>
<b>556<sup>®</sup></b>	0.9	23	2.7	69	1.1	28	2.6	66	1.6	41	5.9	150

Hot corrosion tests were conducted in a low velocity burner rig burning No. 2 Fuel oil with 0.4 percent sulfur. The air:fuel ratio was 30:1. Artificial sea water was injected at a rate equivalent to the salt concentration noted in the table. Tests were run for 1000 hours, with samples cycled out of the gas stream once an hour and cooled to near ambient temperature. Gas velocity was 13 ft./ sec. (4 m/s).