

# ULTIMET<sup>®</sup> alloy

## Resistance to Pitting and Crevice Corrosion

ULTIMET<sup>®</sup> alloy exhibits very high resistance to chloride-induced pitting and crevice attack, forms of corrosion to which the austenitic stainless steels are particularly prone.

To assess the pitting resistance of ULTIMET<sup>®</sup> alloy relative to other corrosion-resistant materials, it has been subjected to tests in Green Death (11.5% H<sub>2</sub>SO<sub>4</sub> + 1.2% HCl + 1% FeCl<sub>3</sub> + 1% CuCl<sub>2</sub>). Experiments were performed at various temperatures (in increments of 5°C) to determine the lowest temperature at which pitting occurs in a 24 h test period (the so-called Critical Pitting Temperature for Green Death). The results were as follows:

Alloy	Critical Pitting Temperature	
	°F	°C
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<b>ULTIMET<sup>®</sup></b>	<b>248</b>	<b>120</b>
<b>C-22<sup>®</sup></b>	248	120
<b>C-276</b>	230	110
<b>625</b>	167	75
<b>6B</b>	113	45
<b>316L</b>	77	25