

Condition		Mild		Moderate		Severe		Very Severe	
	Chloride ppm	100	500	1,000	5,000	10,000	30,000	70,000	100,000 200,000
	pH	316L Type Stainless Steel		904L or Duplex 2205		904L, Duplex 2205, MaxCore 6MO or AL6XN		MaxCore 6MO or AL6XN	
Mild	6.5								
Moderate	4.5	904L or Duplex 2205		MaxCore 6MO or AL6XN		Alloy 22		Alloy 22	
Severe	2								
Very Severe	1	904L or Duplex 2205		MaxCore 6MO or AL6XN		Alloy 22		Alloy 22	

Guidelines for Selection of Stainless Steels and Nickel Alloys Based Upon Chloride Content and pH (150-180 Deg F)

This chart is not intended to limit the use of other materials that may perform adequately in these service conditions.

This chart is for reference only. Users are encouraged to seek guidance from a reputable materials professional for verification of proper alloy selection.

6Mo alloys can be successfully welded to 316L, Duplex materials and nickel alloys. Weld rings are required when field welding 6Mo alloys or Duplex materials.

Type	UNS Number Cross Reference	Similar EN Grade
316L	S31603	1.4404
904L	N08904	1.4439
Duplex 2205	S32205	1.4462
MaxCore 6MO	N08367	1.4529
AL6XN	N08367	1.4529
Alloy 22	N06022	2.4602