
Recommended Practices For Welding Austenitic Chromium

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Austenitic Stainless Steel - TWIUsing the correct type and amount of shielding gas is key when welding austenitic stainless steel, and it is also another way to prevent carbide precipitation. As a general rule, argon is the first choice for welding this material, especially thinner gauge. For thicker gauges, adding small percentages of hydrogen allow increased travel speeds.TIG Welding Austenitic Stainless Steel | IMPOThe low thermal and electrical conductivity of austenitic stainless steel is generally helpful in welding. Less welding heat is required to make a weld because the heat is not conducted away from a joint as rapidly as in carbon steel. In resistance welding, lower current can be used because resistivity is higher.Stainless Steels Welding Guide - Lincoln ElectricAWS D10.4-1986(R2000), Recommended Practices for Welding Austenitic Chromium-Nickel Stainless Steel Piping and Tubing; AWS D10.6/D10.6M:2000, Recommended Practices for Gas Tungsten Arc Welding of Titanium Piping and Tubing; AWS D10.7M/D10.7:2008, Guide for the Gas Shielded Arc Welding of Aluminum and Aluminum Alloy PipeD10 Committee on Piping and Tubing :

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