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Alloy 321 Data Sheet

DESCRIPTION: Designed for the welding of 19.5% Chromium, 9.5% Nickel stainless steels such as type 321 and 321H. Titanium is added as a stabilizer, which provides high resistance to intergranular corrosion.

APPROVALS: Manufactured under Quality System approved by ASME, IS09001. Meets AWS A5.9 Class ER321.

CHEMICAL COMPOSITION

Carbon 0.08 max
Manganese 1.000-2.500
Silicon 0.30-0.65
Chromium 18.50-20.50
Nickel 9.00-11.50
Molybdenum 0.75 max.
Sulfur 0.03 max
Phosphorus 0.03 max
Titanium 9 x C, 0.2-1.0
Copper 0.75 max

MECHANICAL PROPERTIES

Tensile Strength
90,000 PSI (620 MPA)
Elongation 36%

TIG WELDING: Direct Current
Shielding Gas: 100% Argon
Gas Flow: 30 to 40 CFH (14-19 lpm)

Aimtek believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Aimtek cannot make any expressed or implied warranty as to this information.



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