TASETO Welding Materials

Stainless Steel Electrodes

For Flux Cored Arc Welding

GFW309

Applicable Specification JIS Z 3323 TS309-FB0 AWS A5.22 E309T0-1/4

Applications and Characteristics

TASETO GFW309 is designed higher Ni, Cr and ferrite content than those of Type 308 weld metal. So, GFW309 is used for welding of dissimilar metals such as stainless steel to carbon steel or to low alloy steel, welding first layer of stainless steel side in joining clad steel, and welding first layer of overlay welding on carbon steel or low alloy steel.

Notes on Usage

Chemical Composition of All Weld Metal (%)

	C	Si	Mn	P	\mathbf{S}	Ni	Cr	Mo	Cu
Typical	0.034	0.63	1.41	0.018	0.003	12.62	24.28	0.02	0.03

Ferrite Content of All Weld Metal

* Typical Ferrite Content: 13.4% (Sci

13.4% (Schaeffler's Diagram) >18FN (DeLong's Diagram) 20% (Ferrite Scope)

Mechanical Properties of All Weld Metal

	0.2% Proof Stress	Tensile Strength	5D Elongation
	(MPa)	(MPa)	(%)
Typical	452	603	33.0

Sizes Available, Shielding Gas and Approvals

Size (mm)	Shielding Gas
1.2	CO ₂ or Ar+20%CO ₂ , 20L/min
1.6	CO ₂ or Ar+20%CO ₂ , 20L/min

^{*} Please refer "Guideline for Welding Stainless Steel with GFW Wires".