## TASETO Welding Materials

Bare Stainless Steel Rods

For Gas Tungsten Arc Welding

## **TG310**

Applicable Specification

JIS Z 3321 YS310 AWS A5.9 ER310 Identification Color

End Face: Gold

## Applications and Characteristics

TASETO TG310 is the welding material with the chemical composition of 25%Cr-20%Ni. The weld metal is fully austenitic structure. Because of high contents of Cr and Ni, its mechanical properties and resistibility to oxidation in elevated temperature are excellent. TG310 is used for welding of Type 310 stainless steel, and also suitable for welding of dissimilar metals where severe PWHT is required.

Chemical Composition of Wire (%)

	С	Si	Mn	P	S	Ni	Cr	Mo	Cu
Typical	0.085	0.36	1.56	0.009	0.007	21.30	26.54	0.07	0.08

Mechanical Properties of All Weld Metal

	0.2% Proof Stress	Tensile Strength	4D Elongation
	(MPa)	(MPa)	(%)
Typical	408	583	38.5

Typical Tensile Strength and Elongation at High Temperature

Tensile Strength (MPa)	5D Elongation (%)
432	35.0
349	31.0
257	37.4
198	41.7
	(MPa) 432 349 257

Sizes Available and Recommended Welding Currents (DCEN)

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Rod Diameter (mm)	0.8 0.9	1.0	1.2	1.6	2.0	2.4	2.6	3.2	4.0	5.0
Rod Length (mm)	1000									
Welding Current (A)	50~80	5	$0 \sim 12$	20	10	$00^{2}$	00	150^	~250	220~280

<sup>\*</sup>Rod Diameter 0.8, 0.9 mm : Made to order products