TASETO Welding Materials

Stainless Steel Electrodes

For Flux Cored Arc Welding

GFW2594

Applicable Specification JIS Z 3323 TS329J4L-FC0

AWS A5.22 E2594T0-1

Applications and Characteristics

TASETO GFW2594 is used for welding of super duplex stainless steel such as UNS S32750, S32760. As weld metal has higher pitting resistance equivalent (PRE*) value than that of GFW329J4L, GFW2594 is suitable for more corrosive environment. PRE = Cr% + 3.3xMo% + 16xN%

Notes on Usage

- * Preheating is not necessary and interpass temperature should be kept under 150°C.
- * Post weld heat treatment causes severe embrittlement of weld metal.
- * Use 100%CO2 as shielding gas.

Chemical Composition of All Weld Metal (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	W	N	PRE
Typical	0.030	0.51	0.86	0.015	0.004	9.56	26.12	3.51	0.87	0.75	0.23	41.4

Ferrite Content of All Weld Metal

	WRC-1992 Diagram
Typical	65 FN

Tensile Properties of All Weld Metal.

	0.2% Proof Stress	Tensile Strength	4D Elongation
	(MPa)	(MPa)	(%)
Typical	687	891	28.0

Corrosion Resistance of All Weld Metal

Typical	CPT in 6% Ferric Chloride Test (JIS G 0578)	$35^{\circ}\!\mathrm{C}$

Sizes Available and Shielding Gas

Size (mm)	Shielding Gas		
1.2	CO ₂ , 20L/min		