

T-2209

For duplex stainless steels (Low carbon, 22%Cr-9%Ni-Mo STS)

Classifications

EN ISO 14343-A:2007	: W 22 9 3 N L
EN ISO 14343-B:2007	: SS 2209
AWS A5.9-07	: ER2209

Description

- TIG welding of 22%Cr-9%Ni-3%Mo duplex stainless steels (UNS S310803, STS 329J1, 329J2L)
- A various application of the petrochemical offshore structure and distilling apparatuses.

Typical chemical composition of wire (%)

C	Si	Mn	Ni	Cr	Mo
0.01	0.40	1.67	8.70	22.70	3.10

Typical mechanical properties of all-weld metal

	Y.S (MPa)	T.S (MPa)	El. (%)	IV (J) -47°C
AWS A5.9		min. 690	min. 20	
EN ISO 14343	min. 450	min. 550	min. 20	
Example	600	815	35	136

T-308

For austenite stainless steel (18%Cr-8%Ni STS)

Classifications

EN ISO 14343-B:2007	: SS 308	KS D 7026:2005	: Y308
AWS A5.9-07	: ER308	JIS Z 3321:2008	: Y308

Description

- TIG welding of 18%Cr-8%Ni austenite stainless steels (AISI STS 301, 302, 304)
- A various application of the petrochemical, flesh water, medicine and fertilizer industrial apparatuses.

Typical chemical composition of wire (%)

C	Si	Mn	Ni	Cr
0.04	0.41	1.90	9.71	19.80

Typical mechanical properties of all-weld metal

	Y.S (MPa)	T.S (MPa)	El. (%)	IV (J) 0°C	IV (J) -196°C
AWS A5.9		min. 550	min. 35		
EN ISO 14343	min. 350	min. 550	min. 30		
Example	390	580	42	150	40