

For Super duplex stainless steels (25%Cr-9%Ni-4%Mo STS)

Classifications

EN ISO 14343-A:2009	: W 25 9 4 N L
EN ISO 14343-B:2009	: SS 2594
AWS A5.9-2012	: ER2594

Description

- MIG welding of 25%Cr-9%Ni-4%Mo duplex stainless steels.
(UNS S32750, S32760, S32550, S31260)
- A various application of the petrochemical offshore structure and distilling apparatuses.

Typical chemical composition of wire (%)

C	Si	Mn	Ni	Cr	Mo	PREN
0.02	0.42	0.66	9.18	25.06	3.88	41

Typical mechanical properties of all-weld metal

	Y.S (MPa)	T.S (MPa)	El. (%)	IV (J)	
				20°C	-46°C
AWS A5.9		min. 760	min. 15		
EN ISO 14343	min. 550	min. 795	min. 15		
Example	726	875	23	110	75