

KM-2594

Classification

Shielding Gas:	Ar+1~2%O ₂	AWS A5.9/A5.9M	ER2594
	Ar+1~2%CO ₂	AS/NZS ISO 14343	B SS2594

Applications and Features

- (1) Weld metal is super duplex stainless steel with 25%Cr-9%Ni-4%Mo-0.25%N.
- (2) Higher strength and excellent resistance to pitting and stress corrosion cracking.
- (3) It is suitable for welding super duplex stainless steel with such as Zeron 100 and 2507

Welding Instruction

- (1) Use Ar blend with 1~2%O₂ for high current, spray transfer welding .
- (2) Use Ar blend with 1~2%CO₂ for low current, short-circuit transfer welding.

Typical Chemical Composition of Wire (wt%)

C	Si	Mn	P	S	Cr	Ni	Mo	N
0.015	0.42	0.65	0.013	0.004	25.1	9.2	3.9	0.25

Typical Mechanical Properties of Weld Metal (Shielding Gas : Ar+2%O₂)

Tensile Strength MPa	Yield Strength MPa	Elongation %
840	650	28

Size and Suggested Operating Range (DC+)

Shielding Gas		Diameter (mm)		
		0.9	1.0	1.2
Ar+1~2%CO ₂	Amp	60~140	80~160	100~210
	Volt	15~21	16~22	17~22
Ar+1~2%O ₂	Amp	170~260	180~280	200~300
	Volt	24~30	24~30	24~30

Diam.	15 kg Spool
0.9mm	KM25940915
1.2mm	KM25941215