

GMAW Solid Wire for Stainless Steel

KMS-439Ti

Classification

AWS A5.9/A5.9M ER439

JIS Z3323 -

EN 14343-A -

YB T5092 -

Shielding Gas: Ar+1~2%O₂(CO₂)

Applications and Features

- (1) Weld metal is ferrite structure with 18%Cr-Ti.
- (2) Titanium acts as the stabilizing agent to provide oxidation and corrosion resistance.
- (3) Suitable for welding automotive exhausts.
- (4) Used to weld Type 409, 430, 436 and 440 Ti base materials.

Welding Position



Welding Instruction

- (1) Use Ar+1~2%O₂ for spray transfer and Ar+1~2%CO₂ for short-circuit transfer.
- (2) For other instructions, please refer to Appendix B and F.

Typical Chemical Composition of Weld Metal (wt%)

C	Si	Mn	P	S	Cr	Ti
0.03	0.35	0.63	0.010	0.009	18.43	0.61

Typical Mechanical Properties of Weld Metal

Tensile Strength	Elongation
N/mm ²	%
-	-

Size and Suggested Operating Range (DC+)

Diameter (mm)	0.8	0.9	1.0	1.2	1.4	1.6	
Ar+1~2%CO ₂	Current (A)	40~120	60~140	80~160	100~210	-	-
	Voltage (V)	15~20	15~21	16~22	17~22	-	-
Ar+1~2%O ₂	Current (A)	160~210	170~260	180~280	200~300	210~320	220~330
	Voltage (V)	24~28	24~30	24~30	24~30	24~32	24~32