

TECHNICAL DATA SHEET



Super6 307Si MIG

AWS A 5.9 : ER 307Si
EN ISO 14343-A : G 18 8 Mn
Date 20.05.24 Revision 1

DESCRIPTION

G 18 8 Mn (307) is a solid wire suitable for welding dissimilar steels between unalloyed steels, austenitic stainless or heat resisting steels. also used for welding of hardening and tempering steels . The increased silicon content promotes weld pool fluidity giving a smooth deposit appearance.

Materials to be welded . Difficult -to-weld steels, Ferrite-Austenite, Armour plate

WELDING POSITIONS

PA ,PB, PC, PF, PE, PF2

CHEMICAL COMPOSITIONS

C	Mn	Si	Cr	Ni
0.20 MAX	5.00-8.00	1.20 Max	17.00-20.00	7.00-10.00

MECHANICAL PROPERTIES

Yeild strength	≥ 420
UTS N/mm ²	≥ 590
Elongation A5 %	≥ 40%

AVAILABLE FORMATS

SPOOL		
Diameter	15kg	
0.8mm	7161	
1.0mm	7162	
1.2mm	7163	

Shielding Gas	EN ISO 14175: M12,M13,M21
Current Type	DC +

While all reasonable efforts have been made to ensure the accuracy of this information, it may change at any time and is only intended as general guidance.

TECHNICAL DATA SHEET



Super6 307Si TIG

AWS A 5.9 : ER 307Si
EN ISO 14343-A : W 18 8 Mn
Date 20.05.24 Revision 1

DESCRIPTION

W 18 8 Mn (307Si) is an austenitic stainless steel with added manganese and silicon used for joining and surfacing applications involving work-hard enable steels, armour plate, heat resisting steels and dissimilar steels such as austenitic manganese steel to carbon steel forgings and castings.

Materials to be welded . Difficult -to-weld steels, Ferrite-Austenite, Armour plate

WELDING POSITIONS

PA ,PB, PC, PF,PE, PF2

CHEMICAL COMPOSITIONS

C	Mn	Si	Cr	Ni
0.20 MAX	5.00-8.00	1.20 Max	17.00-20.00	7.00-10.00

MECHANICAL PROPERTIES

Yeild strength	≥ 420
UTS N/mm ²	≥ 590
Elongation A5 %	≥ 40%

AVAILABLE FORMATS

Tube	
Diameter	5.0kg
1.6mm	7164
2.4mm	7165
3.2mm	7166

Shielding Gas	Argon
Current Type	DC -

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