

ER 2594 S (Super Duplex)

Stainless Steel WIRE/GMAW

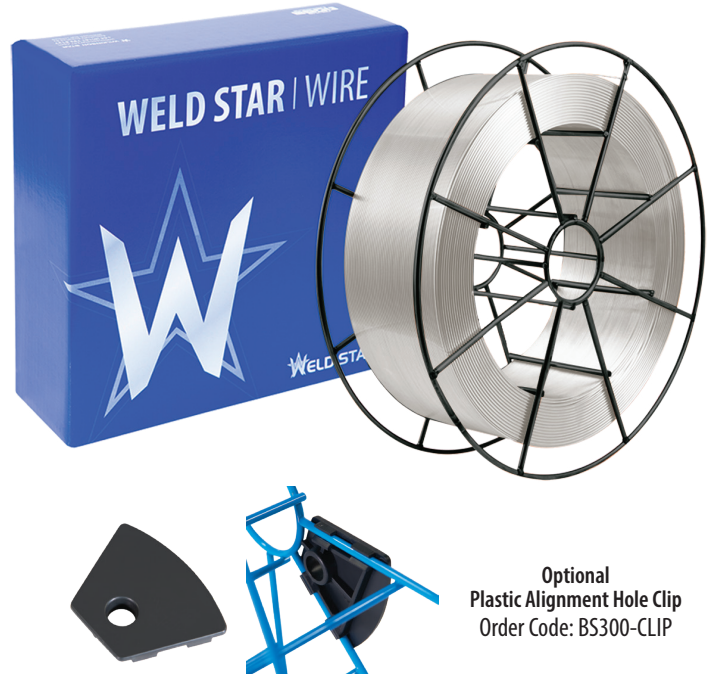
Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - G Z 25 9 4 N L W

AWS-Standard - A5.9
AWS-Classification - ER 2594

Features and Applications

- Austenitic-ferritic wire for welding all grades of super duplex stainless steels.
- Provides matching chemistry and mechanical property characteristics to wrought super duplex alloys such as 2507 and Zeron 100.
- Excellent resistance to aggressive environments as well as to pitting and crevice corrosion in warm seawater applications.
- The presence of Cu and W provides superior resistance to sulphuric and hydrochloric acids when compared to similar alloys without these additions.
- Improved resistance over austenitic stainless to erosion corrosion and fatigue.
- Precision layer wound for superior wire feeding characteristics.
- Typically used in the oil and gas industries, seawater systems, petrochemical and pharmaceutical industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Optional Plastic Alignment Hole Clip
Order Code: BS300-CLIP

Typical Base Materials

UNS S32530, S32550, S32750, S32760, 1.4501*

* Illustrative, not exhaustive list

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases

EN ISO 14175 - M12, M13

Polarity

DC (+)

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥750	≥550	≥25	-

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.

Chemical Composition % (Typical)

C %	Mn %	Si %	S %	P %	Ni %	Cr %	Mo %	Cu %	N %	W %
<0.03	<1.00	<1.00	<0.020	<0.035	9.28	25.12	3.60	0.59	0.22	0.62

Packaging Data

Part No.	Diameter Ø (mm)	Package Weight (Kg)	Package Type	Pallet Quantity
6011100532	0.80	15	BS300 PLW	72
6011100533	1.00	15	BS300 PLW	72
6011100534	1.20	15	BS300 PLW	72

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.

