WILKINSON STAR

WELD STAR®

ER 2594 S (SUPER DUPLEX)

Stainless Steel WIRE/GMAW

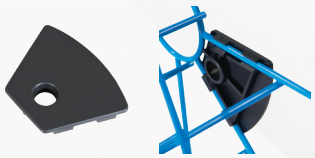
Standards

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

Approvals

CE, UKCA

Typical Base Materials

UNS S32530, S32550, S32750, S32760, 1.4501*

* Illustrative, not exhaustive list

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.

Welding Positions

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

Shielding Gases

EN ISO 14175 - M12, M13

Polarity

DC (+)

Chemical Composition % (Typical)

C %	Mn %	Si %	S %	P %	Ni %	Cr %	Mo %	Cu %	N %
<0.03	1.52	<0.90	<0.020	<0.030	8.55	22.95	3.11	<0.50	0.159

Packaging Data

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

Other diameters available on request