

ER 2209 (Duplex)

Stainless Steel WIRE/GMAW

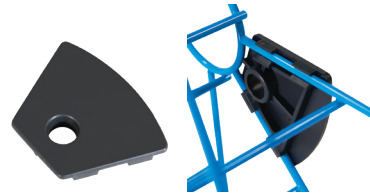
Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - G 22 9 3 N L

AWS-Standard - A5.9
AWS-Classification - ER 2209

Features and Applications

- Austenitic-ferritic duplex stainless steel wire characterised by its high tensile strength.
- The weld metal offers excellent resistance to stress corrosion, cracking and pitting.
- Ideal for joining 22% Cr duplex stainless steel base materials, commonly called 2205.
- The ferrite content of the weld metal will be lower than the ferrite content of 2205 base metals.
- Recommended working temperature ranges from cryogenic to 300°C.
- Precision layer wound for superior wire feeding characteristics.
- Typically used in the petrochemical and offshore industries, acid gas industry and on chemical transportation equipment etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Optional Plastic Alignment Hole Clip
Order Code: BS300-CLIP

Typical Base Materials

UNS S31803, UNS S32205, UNS S39209*

* Illustrative, not exhaustive list

Welding Positions

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

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)
≥550	≥450	≥20	≥50

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 %
<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 Weight (Kg)	Package Type	Pallet Quantity
6011100530	0.80	15	BS300 PLW	72
6011100531	1.00	15	BS300 PLW	72
6011100435	1.20	15	BS300 PLW	72

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