



ER 2209 (DUPLEX)

Stainless Steel WIRE/GMAW



Standards

EN/ISO-Standard - 14343-A

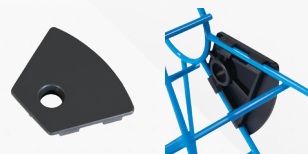
EN/ISO-Classification - G 22 9 3 N L

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

Approvals

CE, UKCA

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 (+)

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
6011100530	0.80	15	BS300 PLW	72
6011100531	1.00	15	BS300 PLW	72
6011100435	1.20	15	BS300 PLW	72

Other diameters available on request

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.