



ER 2209 (DUPLEX)

Stainless Steel WIRE/GTAW



Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - W 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.
- 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**



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, PG

Shielding Gases

EN ISO 14175 - TIG: I1 (Argon)

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
6011100309	1.60	1000	5	Plastic Tube
6011100310	2.40	1000	5	Plastic Tube
6011100311	3.20	1000	5	Plastic Tube

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.