

## PRODUCT INFORMATION

### SIFSteel Stainless 316L

EN ISO 14343 19 12 3 L  
BS 2901 316S92

AWS A5.9 ER 316L

## DESCRIPTION

A molybdenum bearing, stainless steel filler rod with low carbon content. It is corrosion resistant for welding molybdenum bearing austenitic stainless steels. A solid wire for depositing a low C -19% Cr -12% Ni -2.8% Mo weld metal for the welding of 316 and 316L stainless steels.

## WELDING POSITIONS



For use in all positions except vertical down.

## TYPICAL WELD METAL COMPOSITION

C	0.02%
Si	0.4%
Mn	1.5%
Ni	12%
Cr	19%
Mo	2%

## TYPICAL MECHANICAL PROPERTIES

Melting Point	1440°C
Yield Strength (YS)	≥470 N/mm <sup>2</sup>
Impact toughness	≥130 J @ -60°C
Tensile Strength (UTS)	≥650 N/mm <sup>2</sup>
Hardness	180

## MATERIAL TO BE WELDED

The wire is used for a range of applications including the fabrication of pipe and plate. The weld metal provides good resistance to pitting corrosion and crevice corrosion by non-oxidising acids. Intended for applications where service temperatures do not exceed 400°C.

## AVAILABLE FORMATS

WIRE RODS			
Dia	1kg	2.5kg	5kg
0.8mm	RO210801	RO210825	
1.0mm	RO211001	RO211025	RO211050
1.2mm	RO211201	RO211225	RO211250
1.6mm	RO211601	RO211625	RO211650
2.4mm	RO212401	RO212425	RO212450
3.2mm	RO213201	RO213225	RO213250

Shielding Gas:	ArH <sup>2</sup>
Current:	DC=-

For further information, contact Weldability | Sif technical support on **0870 330 7757** or email [service@weldability-sif.com](mailto:service@weldability-sif.com)



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