Technical Data Sheet

UGIWELD™ 308LT

Chemical composition (%)

С	Si	Mn	Ni	Cr	Мо	Cu
≤ 0.03	≤ 0.65	1.0 – 2.5	9.0 – 11.0	19.5 – 21.0	≤ 0,5	≤ 0,5

29-09-2021 - REV 05

Classification

Austenitic grade

Designation

Material No.

Europe – EN ISO 14343-A	USA – AWS A5.9	Europe – WNr.	
19 9 L	ER308L	1.4316	

Approvals

	MIG	TIG	SAW
TÜV (Germany)	Х	X	
CE	Х	X	Х
DB	Х	Х	

Mechanical properties

On All-Weld metal.

Temperature (°C)	Room Temperature	
Tensile strength (MPa)	600	
Yield strength (MPa)	360	
Elongation (%)	35	
Impact ISO V (J)	120	

Corrosion resistance

- » Good general corrosion resistance. This grade is particularly recommended where there is a risk of intergranular corrosion.
- » Very good atmospheric corrosion resistance in urban and rural media.
- » UGIWELD™ 308LT suits most food products and lot of chemical products such as cold alkaline solutions when diluted, cold organic acids when diluted, neutral and alkaline salt without holides...



Swiss Steel Group

Production sites: Ugitech SA www.swisssteel-group.com

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Recommended welding parameters

MIG welding

Recommended shielding gases are:

- » Argon + Oxygen (1 to 3%)
- » Argon + CO₂ (1 to 2.5%)

☐ Filler metal (mm)	0.8	1.0	1.2	1.6	
Short-Arc					
Current (A)	60/80	80/120	100/150		
Voltage (V)	15/17	15/17	17/19		
Spray-Arc					
Current (A)	140/210	180/250	200/290	250/350	
Voltage (V)	25/28	26/29	26/29	27/30	
Gas Flow (I/min)	12 / 18	12 / 18	12 / 18	12 / 18	

Water-cooled torch is recommended for high current above 250 A. Interpass must be controlled to less than 150°C. UGIWELD™ 308LT is suited for pulsed arc welding.

TIG Welding

» Shielding gas: Argon and/or Helium. Nitrogen and hydrogen are prohibited in shielding gases

Follow the recommendations of the torch producer:

Current 50 – 250 A
Voltage 10 – 20 V

Interpass must be controlled to less than 150°C.



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Available products

Process	Shape	Diameter Range	Packaging	Weight
TIG	Rods	1.0 – 4.0 mm	Cardboard tubes	5 kg
		0.8 – 1.6 mm	Metallic spools – BS 300	15 – 18 kg
		0.0 1.2	Plastic spools – D 200	5 kg
MIG	Wire	0.8 – 1.2 mm	Plastic spools – D 300	15 kg
		1.0 – 1.6 mm	Plastic spools – D 350	25 – 27 kg
		0.8 – 1.2 mm	Pay off pack - Drums	250 – 500 kg
	Miro	16 22 mm	Rims K415 / 300 / 94	20 25 kg
	Wire	1.6 – 3.2 mm	Rims K435 / 300 / 70	—— 20 – 25 kg

Contact us for dimensions

Applications

UGIWELD™ 308LT is a filler metal well suited for welding of austenitic stainless steels type 304 and 304L, and also stabilized austenitic stainless steel type 321.

- » Equipment for chemical industry.
- » Equipment for food processing industry.
- » Pipes and tubes.
- » Boiler making.

UGIWELD™ 308LT may be used for welding of some ferritic steels such as 409: automotive exhaust systems.



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