308S92 TIG

TOP FEATURES

- High resistance to intergranular corrosion and general corrosion conditions.
- Ferrite number between 3-12
- Available in PE tube

TYPICAL APPLICATIONS

- Pipework
- plate fabrication
- vessel production

CLASSIFICATION

AWS A5.9M	ER308L
EN ISO 14343-A	W 19 9 L
EN ISO 14343-B	SS308L

SHIELDING GASES (ACC. EN ISO 14175)

I1	Inert gas Ar (100%)

APPROVALS

TÜV
+

CHEMICAL COMPOSITION (WEIGHT %), WIRE

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	FN
Min.		1.0	0.30			19.5	9.0			3
Max.	0.025	2.0	0.65	0.020	0.030	21.0	11.0	0.3	0.3	12
Typical	0.01	1.7	0.4	0.01	0.015	20	10	0.1	0.15	10

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

As welded		Typical
Tensile strength	**(MPa)**	605
0.2% Proof strength	**(MPa)**	465
Elongation (%)	**4d**	35
	5d	33
Impact ISO-V (J)	**-130°C**	110
	-196°C *	80
Hardness, cap/mid	**(HV)**	200/220

* For applications requiring cryogenic toughness see data sheet B-37.

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.6	PE Tube	5.0	T308S92-16
2.0	PE Tube	5.0	T308S92-20
2.4	PE Tube	5.0	T308S92-24
3.2	PE Tube	5.0	T308S92-32

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:

Subject to Change – The information is accurate to the best of our knowledge at the time of printing.
Please refer to www.lincolnelectric.eu for any updated information.