



**T H E H A R R I S P R O D U C T S G R O U P**  
**A L I N C O L N E L E C T R I C C O M P A N Y**  
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**TECHNICAL SPECIFICATION SHEET**

**308L STAINLESS STEEL WELDING WIRE**

**STATEMENT OF LIABILITY- DISCLAIMER**

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**NOMINAL COMPOSITION:**

Carbon	.03% max.	Chromium	19.5-22.0%
Nickel	9.0-11.0%	Manganese	1.0-2.5%
Copper	.75% max.	Silicon	.30-.65% max.
Phosphorus	.03% max.	Sulfur	.03% max.
Molybdenum	.75% max.	Iron	Balance
Normal Ferrite Range	5-12		

**TYPICAL MECHANICAL PROPERTIES AS WELDED:**

Yield Strength	57,000	Elongation	34%
Tensile Strength	87,000	Reduction of Area	56%
Charpy V	100 ft./lb. @ room temp.	Brinell Hardness	160 HB
Rockwell B Hardness	85 HRB		

**APPLICATION:**

Used to weld base metals of similar composition such as 201, 202, 301, 302, 304, 305 and 308 (and L series) lower carbon content of .03 % max. used to avoid carbide precipitation

**RECOMMENDED WELDING PARAMETERS:**

**\*GMAW (MIG) Parameters (DC Reverse Polarity) Electrode Positive Short-Circuiting transfer**

<u>Wire Diameter</u>	<u>Amps</u>	<u>Volts</u>	<u>90% Helium + 7.5% Argon + 2.5% CO<sub>2</sub> (cfh)</u>	<u>Wire Feed (ipm)</u>
.030	60-125	17-22	20-25	150-430
.035	75-160	17-22	20-25	120-400
.045	100-200	17-22	20-25	100-240

**\*GMAW (MIG) Parameters (DC Reverse Polarity) Electrode Positive Spray transfer**

<u>Wire Diameter</u>	<u>Amps</u>	<u>Volts</u>	<u>Argon / 1-2% O<sub>2</sub></u>	<u>Wire Feed (ipm)</u>
.030	160-225	24-28	25	440-650
.035	180-300	24-29	30	430-500
.045	200-450	24-30	30-35	220-400
1/16	225-500	24-32	40	110-210
3/32	250-600	24-32	50	50-80

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**\*GTAW (Tig) Parameters (DCSP) Electrode negative**

<u>Material</u>	<u>2% Thoriated</u>	<u>Filler Wire Size</u>	<u>Amps</u>	<u>Gas Cup</u>	<u>Argon(cfh)</u>
1/16"	1/16"	1/16"	80-120	3/8	20
3/32"	1/16"	1/16"	100-130	3/8	20
1/8"	3/32"	1/16"	120-150	7/16	20
3/16"	3/32"	3/32"	150-250	7/16	25
1/4"	1/8"	1/8"	200-350	1/2	25
1/2"	1/8"	1/8"	235-375	1/2	25

**\* All parameters are suggested as basic guidelines and will vary depending on joint design, number of passes and other factors.**

**SPECIFICATION COMPLIANCE: ANSI/AWS A5.9 & ASME SFA 5.9 ER 308L**

**WARNING: PROTECT yourself and others. Read and understand this information.**

**FUMES AND GASES can be hazardous to your health.**

**ARC RAYS can injure eyes and burn skin.**

**ELECTRIC SHOCK can KILL.**

- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheets (MSDSs), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the arc, or both, to keep fumes and gases from your breathing zone and the general area.
- Wear correct eye, ear, and body protection.
- Do not touch live electrical parts.
- See American National Standard Z49.1, *Safety in Welding, Cutting, and Allied Processes*, published by the American Welding Society, 550 N.W. LeJeune Road, Miami, Florida 33126; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402

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