

SelectAlloy 308L-AP LHCr+6

Stainless Steel / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

FEATURES

- Low C, < 0.04 wt%, minimizes carbide precipitation (sensitization) which makes the weld metal more resistant to intergranular corrosion.
- Smooth arc transfer and self-releasing slag that peels freely to ensure that clean up time is minimized.
- Applications for this alloy type include welding austenitic alloys of similar composition, 301, 302, 304, 304L, 308, and 308L. These alloys are commonly found in chemical, paper, textile, food service equipment, and pharmaceutical industries.
- This product has been specially formulated to reduce hexavalent chromium in the fume compared to standard cored and coated stainless electrodes.

CONFORMANCES

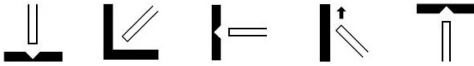
AWS A5.22

E308LT1-1
E308LT1-4
E308T1-1
E308T1-4

DIAMETERS (in [mm])

0.045 (1.2)

POSITIONS



SHIELDING GAS

75-80% Ar + Balance CO₂, 100 CO₂
Flow Rate: 40 - 50 CFH

POLARITY

Direct Current Electrode Positive (DCEP)

TYPICAL WELD DEPOSIT CHEMISTRY (WT%)

| Shielding Gas | Bi | C | Cr | Cu | Mn | Mo | Ni | P | S | Si | WRC-1992 Ferrite |
|----------------------------|--------|------|-------|------|------|------|-------|------|-------|------|------------------|
| 100%CO ₂ | >0.002 | 0.04 | 19.30 | 0.15 | 1.45 | 0.07 | 9.80 | 0.02 | <0.01 | 0.54 | 6 |
| 75%Ar / 25%CO ₂ | >0.002 | 0.04 | 19.50 | 0.14 | 1.59 | 0.07 | 10.20 | 0.02 | 0.01 | 0.70 | 7 |

TYPICAL MECHANICAL PROPERTIES

| Shielding Gas | Tensile Strength ksi (MPa) | Yield Strength ksi (MPa) | Elongation (%) | Weld Condition | PWHT Temp |
|----------------------------|-------------------------------|-----------------------------|-------------------|-------------------|--------------|
| 100%CO ₂ | 81 (559) | 57 (393) | 43 | As-Welded | - |
| 75%Ar / 25%CO ₂ | 84 (579) | 58 (400) | 45 | As-Welded | - |



Revision: 1/17/2025

Notice: Be sure to follow all your employers safety practices, policies and procedures when using this product. Refer to CSA W117.2 and ANSI Z49.1 Safety in Welding, Cutting and Allied Processes for further information and the manufactures SDS sheet. The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

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RECOMMENDED WELDING PARAMETERS **

| Diameter in (mm) | Shielding Gas | Position | WFS* in/min (m/min) | Amps | Volts | CTWD* in (mm) |
|------------------|----------------|-------------------|---------------------|------|-------|---------------------|
| 0.045 (1.2 mm) | 75% Ar/25% CO2 | All-Position | 215 (5.5) | 130 | 23 | 1/2 - 5/8 (13 - 16) |
| | | All-Position | 260 (6.6) | 145 | 24.5 | 1/2 - 5/8 (13 - 16) |
| | | All-Position | 310 (7.9) | 160 | 26 | 1/2 - 5/8 (13 - 16) |
| | | Flat & Horizontal | 420 (10.7) | 180 | 27.5 | 5/8 - 3/4 (16 - 19) |
| | | Flat & Horizontal | 450 (11.4) | 200 | 29 | 5/8 - 3/4 (16 - 19) |

* WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance

**The parameters listed are recommended starting points of operation and the ranges for amperage, wfs, and voltage could be extended based on fitness for application. For products with "all-position" capability, as determined and listed in classification, the position recommendation can be determined based on operator skill and material thickness and isn't limited to the listing.

Parameters were established in 75% Ar/25% CO2. Raise by 1-1.5 volts when using 100% CO2.

PACKAGING (lbs [kgs])

33 (15) Spools, 60 (27.2) Coils, 500 (226.8) Round Drum, 800 (362.9) Hex Drum, 900 (408.2) Hex Drum

*Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.

STORAGE AND HANDLING

All products should be stored in original packaging, in dry conditions and handled with care. For more information refer to our website.



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