

PRODUCT DESCRIPTION

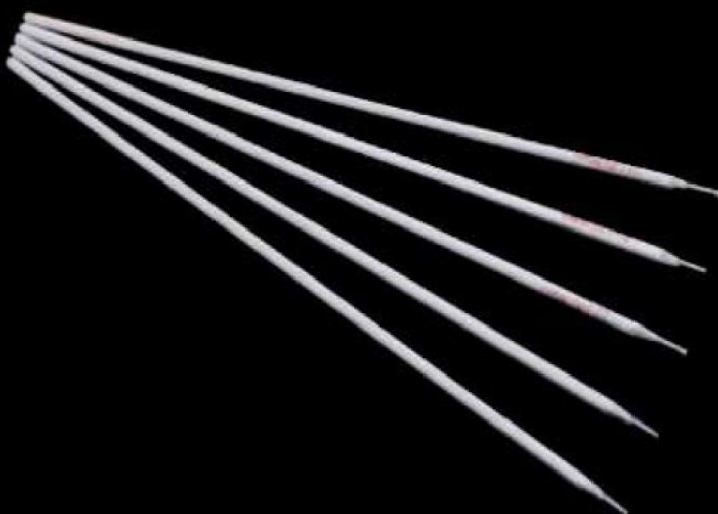
The E-308L-16 welding electrode is a high-quality stainless steel electrode specifically designed for welding austenitic stainless steel grades such as 304L and similar alloys. It is an all-position electrode that provides excellent weldability and exceptional performance in various welding applications.

KEY FEATURES

- **Austenitic Stainless Steel Welding:** The E-308L-16 electrode is specifically formulated for welding austenitic stainless steels, offering exceptional weldability and compatibility with materials like 304L.
- **All-Position Welding:** This electrode is suitable for all welding positions, including vertical, horizontal, and overhead welding, providing versatility and ease of use in different welding applications.
- **Smooth Arc Characteristics:** The E-308L-16 electrode offers a stable and smooth arc, allowing for precise control and uniform weld bead formation. This feature ensures consistent and high-quality welds.
- **Low Carbon Content:** With its low carbon content, this electrode provides excellent resistance to intergranular corrosion and maintains the integrity of the welded joint.
- **Outstanding Mechanical Properties:** The E-308L-16 electrode produces welds with superior mechanical properties, including high tensile strength, good impact toughness, and excellent ductility.
- **Slag Removal and Cleanup:** This electrode generates a self-peeling slag that is easily removable, simplifying the post-weld cleanup process and enhancing overall efficiency.

APPLICATIONS

- Welding of stainless steel components in the food processing industry
- Fabrication of tanks, piping systems, and equipment in the chemical and pharmaceutical sectors
- Welding of structural components, such as beams and columns, in construction projects
- Repair and maintenance of stainless steel equipment in various industries
- Joining dissimilar metals, such as stainless steel to carbon steel, in fabrication projects



DIAMOND PROWELD SS 308L-16

STAINLESS STEEL WELDING ELECTRODE

CLASSIFICATION

AWS A5.4/ASME SFA-5.4: E308/E308L-16

CHEMICAL COMPOSITION OF WELD METAL ANALYSIS (%) (TYPICAL VALUES)

C	Mn	Si	S	P
0.025	0.9	0.8	0.025	0.03
Cr	Ni	Ferrite	Mo	Cu
19.8	9.5	5-10	0.75	0.75

MECHANICAL PROPERTIES OF ALLWELD METAL

ITEMS	TENSILE STRENGTH	YIELD STRENGTH	ELONGATION	CHARPE IMPACT ENERGY VALUES
UNIT	Rm (Mpa)	ReL (Mpa)	%	at +0°C
GENERAL RESULT	≥ 520	≥ 230	≥ 35	≥ 60 (J)

WELDING PARAMETERS

Recommended welding parameters for the E-308L-16 electrode may vary depending on the specific welding application, base material, and joint configuration. It is crucial to refer to the manufacturer's guidelines and conduct proper testing to determine the optimal parameters for your specific requirements.

STORAGE & HANDLING

To ensure the electrode's performance and longevity, please observe the following storage and handling recommendations:

- Store the electrodes in a dry environment at temperatures between 50°F to 100°F (10°C to 38°C).
- Keep the electrodes in their original packaging or a suitable container to protect them from moisture, dust, and other contaminants.
- Avoid exposure to extreme heat, humidity, or direct sunlight.
- Handle the electrodes with clean, dry gloves to prevent contamination.

Manufactured by;



SHANGHAI INDUSTRIES (PVT) LTD.

Manufacturers of Arc Welding Electrodes

Exclusively Manufactured for;



MILLWALA WELDING COMPANY PVT. LIMITED