

PRODUCT INFORMATION NOTE

Welding Electrodes – E6013 & SS 308L-16

A simple guide for identifying the right industrial end-user / buyer

1. What is the product?

These products are welding electrodes (also commonly called welding rods). They are consumable rods used with an electric welding machine to join metal parts. During welding, the electrode melts and forms the weld joint that holds two or more metal components together.

The two products in this note serve different applications: ALFA E6013 is intended mainly for mild/structural steel work, while SS 308L-16 is intended for stainless-steel fabrication and related applications.

2. Product A –ALFA E6013

ALFA 6013 is a medium-coated rutile-type, all-position electrode. The source specification identifies IS 814-2004 ER4211X and AWS SFA 5.1 E6013. It is suitable for welding structural steel. The manufacturer describes the weld deposit as radiographic quality, with consistent mechanical properties, a flat/shiny finely rippled bead, less spatter and easy slag removal.

- Typical end-user metals: mild/structural steels such as IS 2062 and IS 226.
- Typical applications: storage tanks, pipes, machine frames and construction equipment.
- Fabrication uses: sheet-metal fabrication, steel structures, framework, truck bodies and bus bodies.
- Suitable for AC or DC(+) welding; the supplied sheet specifies 50V and recommended current ranges by electrode size.
- Available sizes listed: 2.50 × 350 mm, 3.15 × 350/450 mm, 4.00 × 450 mm and 5.00 × 450 mm.

In simple terms: this is a general-purpose electrode for businesses that fabricate, repair or assemble mild-steel and structural-steel components.

3. Product B –SS 308L-16

SS 308L-16 is a Cr-Ni austenitic stainless-steel, low-heat-input electrode with extra-low carbon. The source specification identifies IS 5206: E19.9 R 86 and AWS A/SFA 5.4 SS E308L-16. It is designed for welding AISI 308L/308/304, 302 and 301 type stainless steels.

- The Cr-Ni chemistry provides controlled ferrite content in the weld deposit and is described as offering resistance to cracking, corrosion and high temperature.

- The extra-low carbon content helps reduce carbide precipitation and increases resistance to inter-granular corrosion.
- The manufacturer describes excellent arc stability, easy slag removal, smooth bead appearance and radiographic quality.
- Typical sizes listed: 2.50 × 350 mm, 3.15 × 350 mm, 4.00 × 350 mm and 5.00 × 350 mm.
- Typical applications include stainless-steel structures, pipefitting, plates, vessels, tanks, forgings and castings.

In simple terms: this is the product to look for where the customer is fabricating or repairing stainless-steel equipment and wants a welding electrode suited to common 300-series stainless steels.

4. Where can the right buyers be found?

The most useful connections are companies that manufacture, fabricate, repair or maintain the following types of equipment:

- Industrial fabrication companies and engineering workshops
- Storage-tank and vessel manufacturers
- Pipe and pipefitting fabricators
- Steel-structure and framework manufacturers
- Construction-equipment manufacturers and repairers
- Truck and bus body manufacturers / fabricators
- Sheet-metal fabrication companies
- Stainless-steel fabrication and assembly companies
- Chemical, petrochemical and power-plant equipment fabricators
- Pharmaceutical, food, dairy and distillery equipment manufacturers
- Paper-processing plant equipment fabricators
- Restaurant and commercial kitchen equipment manufacturers
- Industrial maintenance and repair contractors
- Welding consumables distributors, dealers and industrial supply companies

5. Matching the product to the end user

Potential customer	Likely product	What they may use it for
Mild-steel fabricator	E6013	Frames, structures, fabrication and general welding
Storage tank / pipe fabricator	E6013	Structural and mild-steel fabrication
Construction-equipment company	E6013	Equipment fabrication and repair
Truck / bus body builder	E6013	Body and sheet-metal fabrication
Stainless-steel fabricator	SS 308L-16	304/308/308L stainless assemblies
Tank / vessel manufacturer	SS 308L-16	Stainless tanks and vessels
Chemical / petrochemical equipment maker	SS 308L-16	Stainless piping, vessels and equipment
Pharma / food / dairy equipment maker	SS 308L-16	Stainless process equipment and assemblies

Industrial maintenance contractor	Either	Repairs based on the metal being welded
Welding consumables distributor	Both	Resale to fabrication and industrial customers

6. The easiest way to identify a genuine buyer

When approaching a potential connection, do not start by asking whether they buy 'welding rods' in general. Instead, identify what metals and products they fabricate. The following questions can quickly qualify the lead:

- Do they fabricate or repair mild-steel / structural-steel products?
- Do they fabricate stainless-steel equipment or assemblies?
- Which stainless grades do they commonly weld—especially 304/308/308L, 302 or 301?
- Do they manufacture tanks, vessels, pipes, frames, equipment or vehicle bodies?
- Do they operate their own welding/fabrication workshop?
- Do they purchase welding electrodes directly, or through an approved distributor?
- Who handles procurement / purchase of welding consumables?

7. Simple introduction you can give to a potential connection

“I am looking to connect with manufacturers and industrial fabricators who regularly consume welding electrodes. We can offer ALFA E6013 for mild and structural-steel welding and SS 308L-16 for common stainless-steel fabrication applications. If you know companies involved in tanks, pipes, industrial fabrication, structural work, vehicle bodies, stainless-steel equipment, chemical/pharma/food equipment or industrial maintenance, an introduction to their purchase or procurement person would be very useful.”

8. Key product facts at a glance

- E6013: medium-coated rutile electrode for structural/mild-steel welding; all-position use.
- E6013: source sheet lists UTS minimum 410 N/mm², YS minimum 330 N/mm², elongation minimum 26%, and impact 47 J minimum at 0°C.
- SS 308L-16: Cr-Ni austenitic stainless-steel electrode with extra-low carbon for common 300-series stainless-steel applications.
- SS 308L-16: source sheet lists UTS 520 MPa and elongation 30% minimum.
- Both products have defined current ranges by electrode size and are intended for use on AC/DC(+) according to their respective technical sheets.

9. Important note for buyer identification

The end uses and customer categories above are based primarily on the applications stated in the supplied manufacturer technical sheets. Before making a commercial offer, the buyer's required electrode classification, base metal, size, welding procedure, applicable standard/certification requirements, packaging and quantity should be confirmed.