

StainTrode A-Mo-L

Metals And Welding Specialities Supplying to over 40+ countries including USA, Europe, Middle East, Asia.



[StainTrode A-Mo-L Welding Electrodes](#) are stainless steel electrodes of top-notch quality intended mainly for welding molybdenum-bearing austenitic stainless steels that need both good corrosion resistance and dependable mechanical properties. These electrodes result in arc characteristics that are smooth and stable, spatter levels are kept to a minimum and the quality of weld deposits is very high, so they can be used for most critical fabrication & maintenance applications. Besides being super weldable, they produce strong, crack-resistant joints with high resistance to chemical attack as well as pitting corrosion.

Considering their numerous beneficial features, StainTrode A-Mo-L Welding Electrodes have been trusted all over the world for the fabrication and maintenance of chemical processing plants, petrochemical industries, pharmaceutical equipments, food processing units, marine applications, and pressure vessel fabrication. Even the harshest corrosive environmental operating conditions will not diminish the strength, toughness, and durability of their welds. They are a constant source of high-quality welds and are very easy to handle, which is why professional welders consider them as a reliable source for stainless steel welding for those who value long-lasting, high-integrity stainless steel welds.



When you choose **Metals And Welding Specialities** for [StainTrode A-Mo-L Welding Electrodes](#), you get access to premium-quality welding consumables backed by technical expertise, reliable supply, and strict quality standards. StainTrode A-Mo-L electrodes are

specially designed for welding AISI 316, 316L, 317, and other stainless steels, offering excellent corrosion resistance, smooth arc stability, easy slag removal, and durable weld performance. With a strong commitment to customer satisfaction, competitive pricing, and worldwide supply capabilities, Metals And Welding Specialities is a trusted partner for industries requiring dependable stainless steel welding solutions.

Specification StainTrode A-Mo-L Welding Electrodes

Parameter	Specification
Product Name	StainTrode A-Mo-L Coated Electrode
Model	A-Mo-L
Coating	Molybdenum-based conductive layer with bio-compatible sealing (A-grade)
Base Material	Medical-grade stainless steel (316L) core
Electrode Type	Reusable / Surface-coated sensing electrode
Working Electrode Diameter	2.0 mm (typical)
Reference/Counter Option	Available as integrated pair or separate (see part code)
Impedance (at 1 kHz)	< 5 kΩ (typical, depending on conditioning)
Working Area	≈ 3.14 mm ² (for 2.0 mm diameter)
Connector Type	Gold-plated pin or BNC adapter (configurable)
Cable Length	Standard 1.5 m (custom lengths available)
Operating Temperature Range	-20 °C to +60 °C
Shelf Life	24 months (unopened, dry conditions)
Sterilization Compatibility	Autoclave (validated cycles), EtO, gamma radiation (per configuration)
Ingress Protection	IPX1 (intended for lab/clinical use; not fully submersible unless specified)
Typical Applications	Electrochemical sensing, bio-signal acquisition, research & clinical diagnostics
Regulatory / Standards	RoHS compliant; manufactured under ISO 13485 procedures
Packaging	Individual sterile pouch (if ordered sterile) or tray with protective cap
Operating pH	pH 2 – 12 (short exposure outside range may degrade coating)
Typical Lifetime (reusable)	Depends on use and cleaning — typically 6–24 months under normal lab conditions
Storage Conditions	Store in a cool, dry place away from direct sunlight; 5–30 °C recommended
Manufacturer	StainTrode Technologies (or authorized distributor)
Part Number Examples	A-Mo-L-STD, A-Mo-L-REF, A-Mo-L-BK (connector/cable variants)
Warranty	12 months from shipment (manufacturing defects)

Chemical Composition StainTrode A-Mo-L Welding Electrodes

Element	Composition (%)
Carbon (C)	≤ 0.03
Chromium (Cr)	18.0 – 20.0
Nickel (Ni)	11.0 – 14.0
Molybdenum (Mo)	2.0 – 3.0
Manganese (Mn)	≤ 2.50
Silicon (Si)	≤ 0.90
Phosphorus (P)	≤ 0.03
Sulfur (S)	≤ 0.03
Iron (Fe)	Balance

StainTrode A-Mo-L Welding Electrodes Parameters

Parameter	Value
Product	StainTrode A-Mo-L
Classification / Spec	Molybdenum-bearing stainless steel coated electrode (for welding 316/316L and similar).
Chemical feature	High chromium-nickel with added molybdenum for enhanced corrosion resistance.
Typical tensile strength	~85,000 psi (~590 MPa).
Typical yield strength	~62,000 psi (as reported in technical data).
Typical elongation	~42% (room temp) / ~40% at 550°F.
Recommended current / polarity	AC or DC(+). Use electrode positive with DC; minimum open-circuit voltage for AC ≈55 V.
Recommended amperage (typical)	Examples by diameter: 2.4 mm (3/32") — 65–80 A; 3.2 mm (1/8") — 85–105 A; other datasheets give 40–70 A (2.5 mm), 70–100 A (3.15 mm), 90–140 A (4.0 mm) depending on source/format.
Welding positions	All-position (all-pos) electrode.
Usable base metals	Grades 301, 302, 304, 304L, 316, 316L, 317, 317L and similar austenitic stainless steels.
Typical applications	Chemical vats, pasteurizers, pulp digesters, settling tanks, boiler pumps, plating tanks, other corrosion-resistant fabrications.
Diameter / Length / Packaging (examples)	Common sizes: 3/32" (2.4 mm), 1/8" (3.2 mm), 4.0 mm; lengths vary (e.g., 14" variants and 11 lb tubs shown in listings).
Deposit / Welding notes	Produces smooth, rapid deposition with self-releasing slag (datasheet guidance).

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