

Alloy 309LMo is a high-alloy stainless steel welding wire specially designed by **Metals And Welding Specialities** for superior corrosion and heat resistance in demanding applications. It is widely used for joining dissimilar steels and for overlaying mild or low-alloy steels where enhanced oxidation and scaling resistance is required. This alloy contains a balanced composition of chromium, nickel, and molybdenum, offering excellent strength and toughness even at elevated temperatures. Classified under **UNS S30983** and conforming to **ASTM A580 / A240 Grade 309LMo**, it meets the highest international standards for reliability and weld integrity.



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This **309LMo MIG & TIG** filler wire is known for its low carbon content, which minimizes carbide precipitation during welding and ensures exceptional resistance to intergranular corrosion. The addition of molybdenum enhances pitting resistance in chloride-rich environments, making it ideal for chemical processing plants, pulp and paper industries, and marine structures. **Metals And Welding Specialities** supplies this product with consistent mechanical properties and precise chemical balance to guarantee stable arc performance and smooth weld bead appearance in both **MIG** and **TIG** operations.



Alloy 309LMo MIG & TIG, Alloy 309LMo MIG & TIG Manufacturers, Alloy 309LMo MIG & TIG Suppliers, Alloy 309LMo MIG & TIG Stockists, Alloy 309LMo MIG & TIG Exporters

When used in **TIG welding**, Alloy 309LMo provides clean welds with minimal spatter, allowing for precise control in critical fabrications. In **MIG applications**, it delivers high deposition efficiency and excellent fusion, reducing post-weld finishing time. This wire exhibits strong resistance to oxidation up to 1000°C (1832°F) and maintains its strength in cyclic thermal conditions. It is an excellent choice for joining stainless steels such as 304, 316, or 347 to carbon or mild steels, as well as for hardfacing components exposed to aggressive media or thermal fatigue.

Each batch of **Metals And Welding Specialities Alloy 309LMo** welding wire is manufactured under stringent quality control processes to ensure purity, consistency, and adherence to international welding standards. The product is available in a range of diameters to suit various industrial welding needs and can be supplied in spools or cut lengths. Its reliable weldability, crack resistance, and smooth metal transfer characteristics make it a trusted choice for fabricators worldwide.



Alloy 309LMo MIG & TIG in India, Alloy 309LMo MIG & TIG Manufacturers in India, Alloy 309LMo MIG & TIG Suppliers in India, Alloy 309LMo MIG & TIG Stockists in India, Alloy 309LMo MIG & TIG Exporters in India

By combining advanced metallurgical engineering with decades of expertise, **Metals And Welding Specialities** delivers a product that enhances weld performance, reduces rework, and increases service life in corrosive and high-temperature environments. Whether used for fabrication, maintenance, or cladding applications, Alloy 309LMo MIG & TIG wire ensures outstanding results with superior metallurgical integrity and corrosion resistance.

Specification Alloy 309LMo MIG & TIG Welding Wire



| | |
|--|--|
| Classification | AWS A5.9, 309LMo |
| Form | MIG spools, TIG cut lengths, Reels and Coils |
| Type Of Welding | Inert Gas Welding |
| Current | MIG-DCEP / TIG-DCEN |
| Diameters | .023", .030", .035", .045", 1/16", 3/32", 1/8" |
| Standard TIG straight lengths are available | 36" (914 mm) or 39" (1000 mm) lengths. Other lengths available upon request. |

AWS 309LMo MIG & TIG Filler Metal Application & uses

Hardware tools
Metallurgy
Machinery
Construction
Shipbuilding
Petroleum
Chemical plant
Power sector
Gas Industry

Equivalent Grade Of Alloy 309LMo MIG & TIG Welding Wire



| Class | UNS | BOHLER |
|--------|--------|---------------------------|
| 309LMo | S30988 | BOHLER BOHLER CN 23/12 MO |

Alloy 309LMo MIG & TIG Welding Wire Chemical Composition



| C | Mn | Si | Cr | Ni | S | P | Mo | Cu |
|----------|---------|-----------|-------|-------|----------|----------|-----|----------|
| 0.03 max | 1.0-2.5 | 0.30-0.65 | 23-25 | 12-14 | 0.03 max | 0.03 max | 2-3 | 0.75 max |

Alloy 309LMo MIG & TIG Parameters



| Diameter | | Process | Volt | Amps | Shielding Gas |
|----------|------|---------|-------|---------|--|
| in | (mm) | | | | |
| .035 | 0.9 | GMAW | 22-23 | 180-210 | Spray Transfer 98% Argon / 2% Oxygen |
| .045 | 1.2 | GMAW | 23-25 | 195-260 | |
| 1/16 | 1.6 | GMAW | 25-28 | 260-390 | |
| .035 | 0.9 | GMAW | 19-23 | 55-170 | Short Circuiting Transfer 90% Helium / 7 ½ % Argon / 2 ½ CO2 |
| .045 | 1.2 | GMAW | 19-23 | 100-185 | |
| 1/16 | 1.6 | GMAW | | | |
| 1/16 | 1.6 | GTAW | 14-18 | 90-130 | 100% Argon |
| 3/32 | 2.4 | GTAW | 15-20 | 120-175 | 100% Argon |
| 1/8 | 3.2 | GTAW | 15-20 | 150-220 | 100% Argon |

People Also Searched

309LMo filler wire, 309LMo stainless steel wire, UNS S30983 welding wire, ASTM A580 309LMo, ER309LMo, 309LMo MIG wire, 309LMo TIG wire, Metals And Welding Specialities 309LMo, stainless steel filler wire, heat-resistant welding alloy, molybdenum alloy wire, 309LMo welding rod, 309LMo TIG rod, dissimilar metal welding wire, corrosion-resistant welding wire, stainless overlay wire, ER309LMo MIG filler, 309LMo stainless TIG filler, stainless steel joining wire, high-temperature welding wire, oxidation-resistant filler wire, 309LMo wire for mild steel, ER309LMo stainless MIG, UNS S30983 stainless wire, 309LMo filler rod supplier, Metals And Welding Specialities welding products, stainless fabrication wire, marine-grade stainless filler, 309LMo electrode alternative, ASTM 309LMo stainless steel, alloy 309LMo manufacturer, 309LMo for chemical industry, ER309LMo wire price, 309LMo welding material, stainless cladding wire, 309LMo high corrosion resistance filler, UNS S30983 TIG filler, stainless MIG welding consumables.