

## SOLID WIRES & RODS FOR ALUMINIUM & COPPER WELDING

Hyundai Welding's solid wires and rods for aluminium & copper welding are catering to industries and applications as well as the required demands in distribution channels. If you're seeking high quality products for standard work, Hyundai Welding's product range is the ideal selection. By choosing this line of bestselling wires and rods, you benefit from using a reliable product from a globally renowned brand at a reasonable price.



# HYUNDAI WELDING

HYUNDAI WELDING is a global manufacturer of welding consumables and equipment. As the top leading manufacturer of welding consumables in Korea, and with a global network of sales, distribution and manufacturing plants, HYUNDAI WELDING has developed into a key player in the international welding industry.

Our company is fully committed to the ever-changing needs of our customers and has evolved in just under 50 years to provide welding expertise and breakthroughs in welding technology. HYUNDAI WELDING understands customer needs and offers customers world-class products and world-class solutions.

## PRODUCT RANGE

### GMAW/MIG Wires & GTAW/TIG Rods for Aluminium Alloys

As the usage of aluminium wire in welding business is increasing; HYUNDAI WELDING is geared to offer a rapid response to clients' specific requirements. HYUNDAI WELDING offers an extensive range of GMAW/MIG wires and GTAW/TIG rods with tolerances in chemical composition and good quality surface finish for aluminium welding applications which are used in various industries. Our aluminium wires and rods come in various sizes and packaging options to meet different requirements globally. Our wire and rods help to solve problems associated with aluminium welding usually related to feedability, surface finish, surface cleanliness, chemical composition and convenient packaging.



### GMAW/MIG Wires & GTAW/TIG Rods for Copper Alloys

To select right product for welding copper alloys and related applications, it is important to ensure that the welding wire meets the relevant standards project such as feedability and surface quality for your specific projects. HYUNDAI WELDING offers high quality copper alloy GMAW/MIG wires and GTAW/TIG rods for welding applications in the automotive, shipbuilding and chemical industries . The type of copper alloy you are welding will also dictate the type of welding wire you need which is associated to chemical composition. The high purity of the wires is guaranteed by our strict specifications for the raw materials with a narrow chemical composition.



## INFORMATION FOR ALUMINIUM ALLOY GMAW/MIG WIRES & GTAW/TIG RODS




Product Name	AWS A5.10	EN ISO 18273	Usage Areas	Approvals
SMT-1070	ER1070	~ Al 1070 (Al99.7)	Chemistry, electronics, construction and food industries. Metalizing and thermal spray application. Low strength corrosion resistant vessels and tanks	
SMT-1080	ER1080A	S Al 1080A (Al99.8(A))	Metalizing, chemical processing plant, thermal spray, food industry, panelling application	
SMT-4043	ER4043	S Al 4043 (AlSi5)	Construction, structural, automotive and shipbuilding industries. Production of mobile equipment	CE, DB
SMT-4047	ER4047	S Al 4047 (AlSi12)	Application with elevated temperatures. Radiators and air conditioning. General repair and maintenance	
SMT-5087	ER5087	S Al 5087 (AlMg4.5MnZr(A))	Shipbuilding, offshore, cryogenic storage tanks, railroad cars and automotive industry	CE
SMT-5183	ER5183	S Al 5183 (AlMg4.5Mn0.7(A))	Railroad cars, commercial vehicle, pressure vessels, marine components, drilling rigs and cryogenics storage tanks	CE, DB
SMT-5356	ER5356	S Al 5356 (AlMg5Cr(A))	Shipbuilding, bicycle/motorcycle, commercial vehicle, pressure vessel, storage tank, railways, automotive industries.	CE, DB, ABS
SMT-5554	ER5554	S Al 5554 (AlMg2.7Mn)	Railroad cars and automotive industry together with high temperature applications. Over-the-road trailers, rail tank cars and chemical storage tanks	
SMT-5556	ER5556	S Al 5556A (AlMg5Mn)	Military, structural industry, pressure vessels, construction and storage tank industries	
SMT-5754	ER5754	S Al 5754 (AlMg3)	Construction, automotive and shipbuilding industries. Resistant to intergranular corrosion and stress corrosion cracking after exposure to elevated temperatures	

## INFORMATION FOR COPPER ALLOY GMAW/MIG WIRES & GTAW/TIG RODS




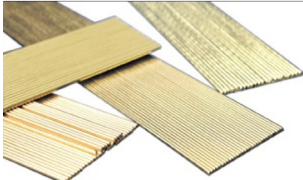
Product Name	Product Type	AWS A5.7	EN ISO 14640	Usage Areas
SM(T)-Cu	Deoxidized Copper	ERCu	CuSn1	Used to surface, build up, and fabricate electrolytic tough pitch and oxygen-free copper. To overlay steel to join heavier section of copper to steel
SM(T)-CuSi A	Silicon Bronze	ERCuSi-A	CuSi3Mn1	Bronze impellers, bronze wear plates, hydraulic piston overlays, track wheels, gears, sprockets, farm implements and fixing in artistic foundries
SM(T)-CuSn A	Phosphor Bronze-A	ERCuSn-A	CuSn6P	Fixing worn surfaces with similar basis metals. Welding of copper with Cu-Sn alloy. Good for butt joining welding of brass with steel
SM(T)-CuSn C	Phosphor Bronze-C	ERCuSn-C	CuSn9P	Welding of copper with Cu-Sn alloy. Good for butt joining welding of brass with steel
SM(T)-CuAl A1	Aluminum Bronze-A1	ERCuAl-A1	CuAl8	Propellers, pumps, shafts and valves for shipbuilding industry. Valves, sleeves, pipes, heat exchangers, gear housings for chemical industry. Welding and coating of aluminium-bronze with steel basis.
SM(T)-CuAl A2	Aluminum Bronze-A2	ERCuAl-A2	CuAl10	Widely used for shipbuilding, apparatus and plumbing which is suitable for parts which can undergo seawater corrosion. Also used for joining dissimilar alloys such as copper and steel, cast iron, bronze
SM(T)-CuAl A3	Aluminum Bronze-A3	ERCuAl-A3	CuAl11Fe3	Used in shipbuilding, machinery and chemical industries. Suitable for butt joining and overlay welding of copper aluminium alloys, aluminium coated steel and cast iron
SM(T)-CuAl8Ni2	Nickel-Aluminum Bronze	-	CuAl8Ni2	Used in shipbuilding, machinery and chemical industries. Recommended for welding and hard facing of copper-aluminium alloys, aluminium coated steel. Excellent for welding brass tube and copper-aluminium
SM(T)-CuNiAl	Nickel-Aluminum Bronze	ERCuNiAl	CuAl9Ni5	Propeller, valves, pumps, and pipe systems for shipbuilding, Power and chemical plant components which requires weld alloy with excellent corrosion and wear resistance characteristics.
SM(T)-CuMnNiAl	Manganese-Nickel-Aluminum Bronze	ERCuMnNiAl	CuMn13Al7	Joining or fixing cast metals. Joining or surfacing copper alloys of unalloyed and low alloy steel as well as grey cast iron. Used in marine, power and chemical plants such as propellers, pumps and seawater devices.
SM(T)-CuNi	Copper Nickel	ERCuNi	CuNi30	Used in shipbuilding, machinery, oil refinery and food processing industries. Suitable for welding of nonferrous alloys, dissimilar steel materials.
SM(T)-9010A	Copper Nickel	-	CuNi10	Used in shipbuilding, machinery, oil refinery and food processing industries. Particularly suitable for the welding and hard facing Copper nickel alloys and welding of non-ferrous alloys, dissimilar steel materials

# PACKAGING SPECIFICATIONS

## ALUMINIUM ALLOY GMAW/MIG WIRES & GTAW/TIG RODS

Packaging Type	Weight kg (lbs)	Diameter mm (in)
 Basket Spool BS300	7 (15)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 Plastic Spools D300, D200, D100	7 (15) 2 (4.4) 1 (2.2)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 Drums	50 (110) 80 (175) 100 (220)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 PE Tube	5 (11)	1.6 (1/16) 2.0 (0.078) 2.4 (3/32) 3.2 (1/8) 4.0 (5/32) x 1000 (39.4)

## COPPER ALLOY GMAW/MIG WIRES & GTAW/TIG RODS

Packaging Type	Weight kg (lbs)	Diameter mm (in)
 Basket Spool BS300	15 (33) 12.5 (27.56)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 Plastic Spools D300 and D200	15 (33) 5 (11)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 Drums	100 (220) 250 (551)	0.8 (0.030) 0.9 (0.035) 1.0 (0.040) 1.2 (0.045) 1.6 (1/16)
 PE Tube	5 (11)	1.6 (1/16) 2.0 (0.078) 2.4 (3/32) 3.2 (1/8) 4.0 (5/32) x 1000 (39.4)

