

METAL-CORED WIRES

Metal-cored wires offer numerous advantages in the welding business, including enhanced productivity, improved weld quality, and versatility across different applications. These properties make them a valuable choice for many welding operations. HYUNDAI WELDING provides a premium range of metal-cored wires with high deposition rates, excellent penetration, high travel speeds and excellent bead appearance.



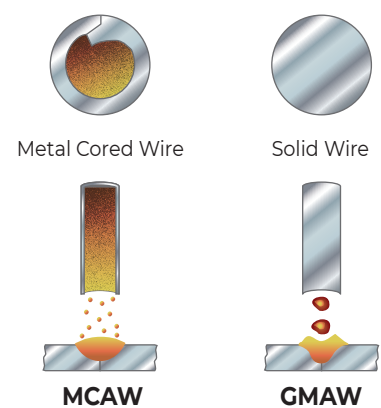
HYUNDAI WELDING

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.

METAL-CORED WIRES

When making decisions about the fabrication process, organizations have increasingly recognized the necessity of evaluating not just the expenses accrued within the weld cell, but the comprehensive cost of the welding operation. Pre- and post-weld activities as well as equipment selection can significantly influence quality, productivity, and profitability. Metal-cored wire consists a metal sheath filled with metallic powders, alloys, and arc stabilizers, each providing unique advantages such as reducing oxidation, enhancing impact strength, and minimizing silicon deposits in the final weld pool. This mechanical and chemical composition makes the wire function differently from solid wires, which are solid throughout their cross-section, and also produces distinct arc and weld profile characteristics. In comparison to solid wire, metal-



cored wire conducts the current through its outer metal sheath, resulting in a broad penetration profile. It also functions in the spray transfer mode, producing very fine droplets that settle into the weld puddle with minimal to no spatter. The design of metal-cored wire which consists a metal sheath filled with various powdered alloys and arc stabilizers , gives metal-cored wire several distinctive properties and advantages against solid wires such as:

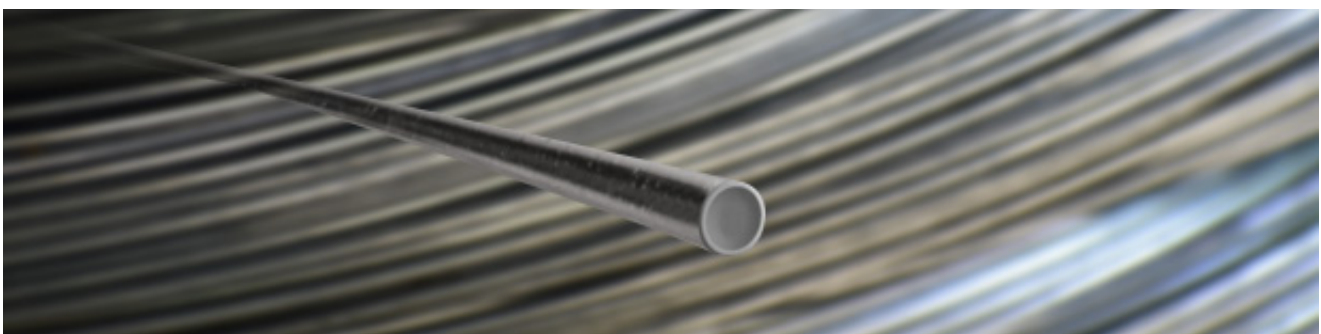
Increased Productivity: The higher deposition rates and welding speeds translate into increased productivity, allowing for more work to be completed in less time.

Cost Efficiency: Although metal-cored wires may be more expensive than solid wires, the increased productivity and reduced need for post-weld cleaning and defect repairs can lead to overall cost savings.

Operator Appeal: The stable arc and reduced spatter make welding with metal-cored wire more user-friendly, leading to improved operator satisfaction and potentially better weld quality.

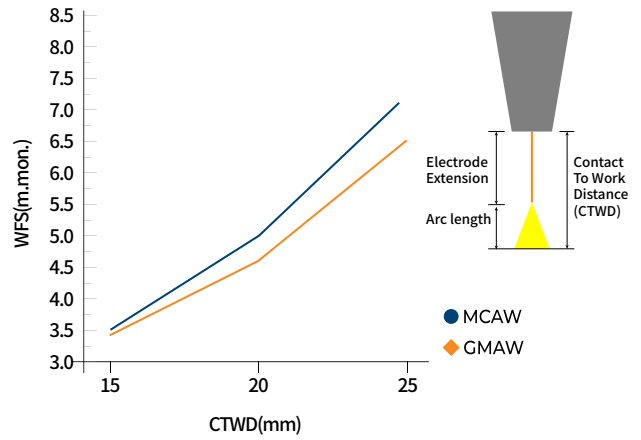
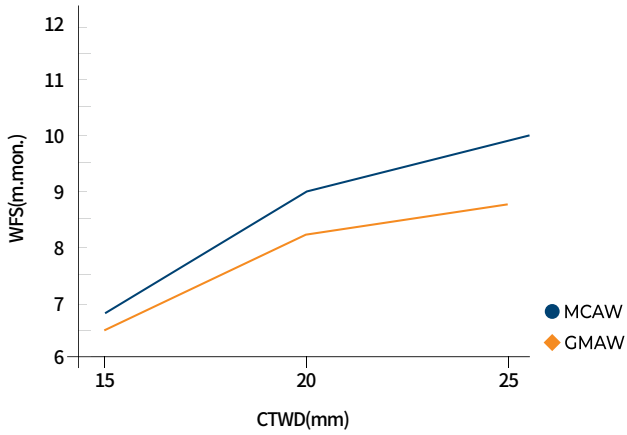
Excellent Penetration: The composition of metal-cored wires promotes deep penetration with the base material, ensuring strong and reliable welds.

Excellent Feedability: Metal-cored wires are generally designed to have good feedability, allowing them to be fed smoothly through the welding gun and contact tip.

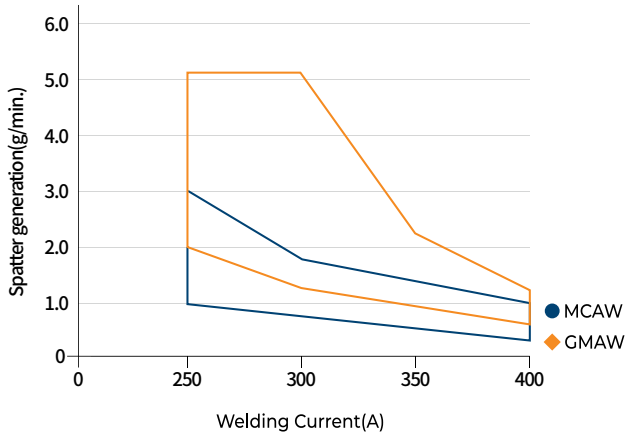


BENEFITS AND ADVANTAGES

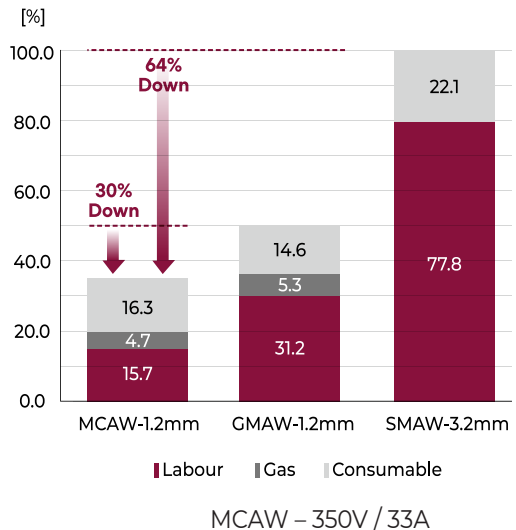
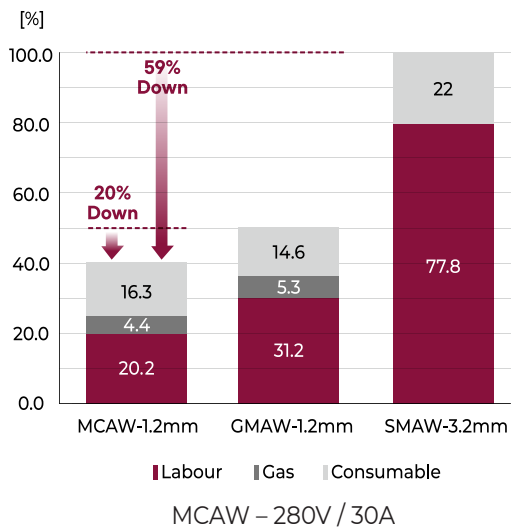
High Wire Feeding Speed & High Deposition Rates



Low Spatter

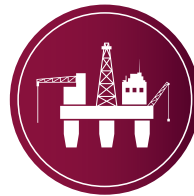


Overall Cost Savings

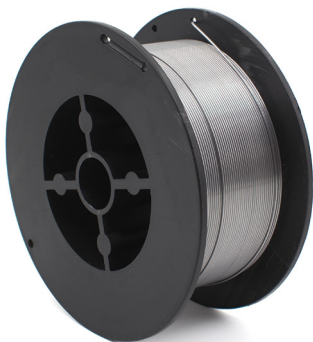


PRODUCT RANGE FOR MILD AND LOW ALLOY STEEL

Product	AWS	EN	Industries
Supercored 70NS	A5.18 E70C-6M	ISO 17632-A T 42 3 M M 21 3 H5	Heavy Equipment, Structural Engineering, Automotive, Shipbuilding
SC-70T Cored	A5.18 E70C-3C/6M	ISO 17632-A T 42 2 M C11 / T 46 2 M M21 1 H5	Structural Engineering, Shipbuilding
SC-70ML	A5.18 E70C-6M	ISO 17632-A T 46 4 M M21 2 H5	Heavy Equipment, Structural Engineering, Offshore, Shipbuilding
SC-70A	A5.18 E70C-3C E70C-6M	EN ISO 17632-A T 42 3 M C11 H5 / T 46 3 M M21 1 H5	Structural Engineering, Shipbuilding
SC-70Zn	A5.18 E70C-GSM	ISO 17632-A T 3T Z M M21 1	Automotive, Structural Engineering (Galvanized Steel)
SC-80D2	A5.28 E80C-G	ISO 17632-A T 46 0 MnMo M M21 3	Structural Engineering, Petrochemical Industry
SC-80ML	A5.28 E80C-Ni1	ISO 17632-A T 50 4 Z1Ni M M21 3 H5	Heavy Equipment, Structural Engineering
SC-80MR	A5.28 E80C-G	ISO 17632-A T 50 6 1.5Ni M M21 2 H5	Heavy Equipment, General Fabrication, Offshore
SC-90M	A5.28 E90C-G	ISO 18276-A T 55 5 ZMn1NiMo M M21 1	Heavy Equipment, Structural Engineering
SC-110M Cored	A5.28 E110C-G	ISO 18276-A T 69 4 Mn2NiMo M M21 3 H5	Heavy Equipment, Structural Engineering



PACKAGING OPTIONS



Spool

**5kg (11lbs)
15kg (33lbs)
20kg (44lbs)**



Drum

**250kg (551lbs)
300kg (661lbs)
350kg (771lbs)
400kg (881lbs)
420kg (926lbs)**

The maximum weight varies by product. Please contact your regional sales manager for more information.