

Specially used for welding 5xxx series aluminum alloys (such as 5052, 5083, 5454, etc.), suitable for ship decks, pressure vessels, lightweight automotive parts, etc.

Recommended process: MIG welding (shielding gas: pure Ar)

■ Features:

- High strength: Designed with magnesium (Mg), the weld strength matches the base material ($\geq 240\text{MPa}$).
- Corrosion resistance: The seawater corrosion resistance is better than that of ER4043 welding wire.
- Good processability: Adding chromium (Cr) inhibits welding hot cracks and is suitable for high-speed welding.



Chemical properties

Element	Mg	Mn	Cr	Ti	Si
Content	4.5-5.5	0.05-0.2	0.05-0.2	≤ 0.06	≤ 0.25

Material properties

Characteristics	Value/Description
Tensile strength	$\geq 270\text{ MPa}$
Yield strength	$\geq 150\text{ MPa}$
Elongation (gauge length 50mm)	$\geq 15\%$
Impact toughness (-20°C)	$\geq 40\text{ J @ } -196^\circ\text{C}$
Electrical conductivity	30% IACS
Density	2.68 g/cm^3
Melting point	$570\sim 640^\circ\text{C}$