Key Facts

- The silicon addition improves puddle fluidity, producing an appealing bead profile
- Less crack sensitive than other welding alloys

Description

5% Silicon alloy wire or rod suitable for fusion welding of alloy castings due to its excellent flow and penetration characteristics. Precision wound for smooth and consistent feeding.

Recommended Shielding Gas

100% Argon

Welding Positions

All positions

Classification, Approvals & Conformances

A5.10 ER4043
AWS A5.10.ER4043
AMS 4190

Applications

Generally used in the repair of automotive parts such as cylinder heads, inlet manifolds and housings. Can also be used for defects and cast repairs.

Typical Analysis/Composition

Zn - Zinc	Mn - Manganese	Si - Silicon	Ti - Titanium
< 0.10	< 0.05	4.5 – 6.0	< 0.20
Mn - Magnesium	**Ai - Aluminum**	**Cu - Copper**	**Fe - Iron**
< 0.05	Balance	< 0.530	< 0.80
Others			
< 0.15			

Typical Weld Mechanical Properties

Yield Strength:	27,000 psi
Tensile Strength:	180 - 250N/mm^2
Elongation (5xD):	8%

Packaging & Ordering Information

Size	Weight	Part Number
1.6mm	1kg	300015H
2.4mm	1kg	300016H
3.2mm	1kg	300017H
5.0mm	5kg	300019