

### Key Facts

- The silicon addition improves puddle fluidity, producing an appealing bead profile
- Less crack sensitive than other welding alloys
- Premium 5%Si double shaved tig wire
- Very low oxide levels resulting in superior welds

### 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.

- Excellent for Alloy castings
- Automotive repairs
- Cylinder heads

### Typical Analysis/Composition

Zn - Zinc	Mn - Manganese	Si - Silicon	Ti - Titanium
< 0.10	< 0.05	4.5 – 6.0	< 0.20
Mn - Magnesium	Al - 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 <sup>2</sup>
Elongation (5xD):	8%

### Packaging & Ordering Information

Size	Weight	Part Number
1.6mm	5kg	300015
2.4mm	5kg	300016
3.2mm	5kg	300017