

## 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

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

## Packaging & Ordering Information

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

Disclaimer: The above information is provided as a guide; actual welding current and voltage will depend on the welding machine characteristics, which will vary from model to model. Other variables include run length and size, plate thickness, operator technique and gas type (if used). The user must evaluate the process, application and recommended professional advice. Under no circumstance will Dynaweld or its affiliates be liable for misuse or application of products this is entirely up to the user's ability.