Aluminium Mig Wires | Safra 4043

Key Facts

- Precision layer wound, double diamond shaved wire
- Excellent feedability and arc control
- Very high quality welds
- Excellent crack resistance

Description

A high quality all-purpose aluminium alloy mig wire containing 5% silicon. Added silicon increases the fluidity of the weld pool creating a weld that is more resistant to cracking.

Classifications, Approvals & Conformances

AWS A5.10 ER4043
ABS - American Bureau of Shipping
DB - DB Systemechnik
DNV - Det Norske Veritas
Lloyd's Register of Shipping
RINA
TŰV

Applications

Suitable to weld a range of aluminium grades and alloys. 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 as well as heat exchangers and food manufacturing equipment.

- Repair of Alloy castings
- Scaffold fabrication
- Food processing equipment

Recommended Shielding Gas

100% Argon

Welding Positions

All positions

Typical Wire Analysis

Cu - Copper	Mn - Manganese	Si - Silicon	Others
< 0.05	< 0.05	4.5 – 5.5	< 0.15
Zn - Zinc	**Ti - Titanium**	**Mg - Magnesium**	**Be - Beryllium**
< 0.01	< 0.15	< 0.05	< 0.0008
Fe - Iron	**Ai - Aluminium**		
< 0.40	Balance		

Typical Weld Mechanical Properties

0.2% Proof Stress	> 40N/mm^2
Elongation	>8%
Tensile Strength:	190N/mm^2

Packaging & Ordering Information

Size	Packet	Part Number
1.2mm	6kg	200237S
1.6mm	6kg	200238S

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.

Aluminium Mig Wires | Safra 5183

Key Facts

- Precision layer wound, double diamond shaved wire
- Excellent feedability and arc control
- Very high quality welds
- Excellent where sea water corrosion resistance is required

Description

Recognised as the highest quality aluminum welding wire. Precision layer wound and double diamond shaved for superior feed ability. Designed to meet the tensile strength requirements of high magnesium alloys. Clearly the professional's choice.

Classifications, Approvals & Conformances

AWS A5.10 ER5183
ABS - American Bureau of Shipping
DNV - Det Norske Veritas
Lloyd's Register of Shipping

Applications

5183 is used where high sea water corrosions resistance is needed. Applications include construction of ships, storage tanks and in the automotive industry.

- General aluminium fabrication and repairs on boats and ships
- Bullbars and rollbars
- Storage tanks
- Welding of many aluminium alloys where higher strength is required

Operational Data

Wire Size	Welding Current Range (A)	Arc Voltage Range *(V)
1.2mm	150 – 250	20 - 27
1.6mm	200 – 350	23 - 30

Recommended Shielding Gas

100% Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Welding Positions

All positions

Typical Wire Analysis

Cu - Copper	Mn - Manganese	Si - Silicon	Zr - Zirconium
< 0.05	0.60 – 1.0	< 0.25	-
Zn - Zinc	**Ti - Titanium**	**Mg - Magnesium**	**Cr - Chromium**
< 0.25	< 0.15	4.30 – 5.20	0.05 – 0.25
Fe - Iron	**Ai - Aluminium**		
< 0.40	Balance		

Typical Weld Mechanical Properties

0.2% Proof Stress	> 125N/mm^2
Elongation	> 17%
Tensile Strength:	> 275N/mm^2

Packaging & Ordering Information

Size	Packet	Part Number
0.9mm	6kg	200217S
1.0mm	6kg	200218S
1.2mm	6kg	200219S
1.6mm	6kg	200220S

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Aluminium Mig Wires | Safra 5356

Key Facts

- Precision layer wound, double diamond shaved wire
- Excellent feedability and arc control
- Very high quality welds
- Suitable for a range of aluminium materials

Description

Recognised as the highest quality aluminium welding wire. Precision layer wound and double diamond shaved for superior feed ability. Clearly the professional's choice.

Classifications, Approvals & Conformances

AWS A5.10 ER5356
ABS - American Bureau of Shipping
DNV - Det Norske Veritas
Lloyd's Register of Shipping

Applications

Applications include construction of ships, storage tanks and in the automotive industry where corrosion resistance is essential.

- General aluminium fabrication and repairs
- Bullbars and rollbars
- Boat building
- Welding of many aluminium alloys

Recommended Shielding Gas

100% Ar

Welding Positions

All positions

Typical Wire Analysis

Cu - Copper	Mn - Manganese	Si - Silicon	Others
< 0.05	1.0 – 02	< 0.25	< 0.15
Zn - Zinc	**Ti - Titanium**	**Mg - Magnesium**	**Cr - Chromium**
< 0.10	< 0.15	4.3 – 5.2	0.1 – 0.3
Fe –I ron	**Ai - Aluminium**		
< 0.40	Balance		

Typical Weld Mechanical Properties

0.2% Proof Stress	> 110N/mm^2
Elongation	17%
Tensile Strength:	240N/mm^2

Packaging & Ordering Information

Size	Weight	Part Number
0.9mm	6kg	200209S
1.0mm	6kg	200210S
1.2mm	6kg	200213S
1.2mm	80kg Pail Pack	200213SP
1.6mm	6kg	200214S

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