


<b>Technical data sheet</b>  <small>011121MBA</small>	<b>Aluminium - Solid wire</b>  <b>SPEEDAI 4043</b>	 <b>Welding Alloys</b>
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### CLASSIFICATION

EN ISO 18273: S Al 4043 (AlSi5 (A))  
 AWS A 5.10: ER4043  
 Material number: 3.2245

### DESCRIPTION

- Filler rod/wire of aluminum-silicon alloy for TIG/MIG welding of aluminum-silicon alloys
- Weld seam area must be metallic bright. With large workpieces and wall thicknesses above 15mm, preheat the area of the welding groove to 150°C-200°C

### APPLICATIONS

SPEEDAI 4043 are designed for joining aluminium-silicon alloys like AlSi and AlSiMg cast with max. 7% Si

### Examples

EN	Material number	UNS
AW-6061 (AlMgSi1)		
AW-6063 (AlMgSi0.7)	3.3535	5754
AW-6082 (AlMgMnSi1)		

### TYPICAL WIRE ANALYSIS

Si	Al
5.0	Bal.

### TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	A5 [%]
160	100	15

### TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES


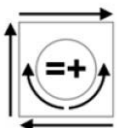
Electrical conductivity [S*m/mm <sup>2</sup> ]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
24 - 32	170 - 190	22.1*10 <sup>-6</sup>

### SHIELDING GAS

GTAW	EN ISO 14175: I1 (Argon)
GMAW	EN ISO 14175: I1 (Argon), I3 e.g. (Argon + 30% helium)

Preheating at 150°C for base metal thicknesses exceeding 15 mm is recommended.

### WELDING POSITIONS

GTAW	GMAW
	

### PACKAGING

Welding process	Product type	Diameter x Length	Packing type EN ISO 544	
GTAW	Rod	1.6 - 5.0 mm x 1000 mm	Tube	5 kg
GMAW	Wire	0.8 - 2.4 mm	Spool	15 kg

Other packaging and other diameters: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.