# AlSi5

### CLASSIFICATION

AWS A5.3	E4043	F-Nr	23
ISO 18273	AI 4043A* (AISi5(A)) )	Mat-Nr	3.2245
*:Deviation,	see remarks		

### GENERAL DESCRIPTION

Especially for welding forged and cast aluminium alloys containing less than 5% Si as main alloying element Good weldability, no porosity



## CHEMICAL COMPOSITION (W%), TYPICAL, ALL WELD METAL

AI	Si	
hal	5.0	

PB/2F

PF/3Gu

PA/1G

# MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Condition	0.2% Proof strength (N/mm²)	Tensile strength (N/mm²)	Elongation (%)	
Typical values	AW	90	160	15	

PACKAGING AND	AVAILABLE SIZES				
	Diameter (mm) Length (mm)	2.5 350	3.2 350	4.0 350	
Metal can	Pieces / unit Net weight/unit (kg)	2.0	- 2.0	2.0	

AlSi5: rev. C-EN23-01/02/16

All information in this data sheet is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any udpated information. Fumes: Safety Data Sheets (SDS) are available on our website.

EXAMPLES OF MATERIALS TO BE WELDED	
Aluminium-silicon alloys and dissimilar of several aluminium alloys. With restriction : precipitation hardening alloys such as :	Mat. Nr
AlCuMg1	3.1325
AlMgSi1	3.2315
AlZn4.5Mg1	3.4335

### CALCULATION DATA

Sizes Diam. x length (mm)	Current range (A)	Current type	Weight/ 1000 pcs (kg)
2.5 x 350	40-70	DC+	9.2
3.2 x 350	60-90	DC+	14.0
4.0 x 350	80-120	DC+	20.4

\*Stub end 35mm

### WELDING PARAMETERS, OPTIMUM FILL PASSES

Diameter Welding positions		ons	
(mm)	PA/1G	PB/2F	PF/3Gup
2.5	60A	60A	55A
3.2	80A	80A	75A
4.0	110A	110A	105A

#### **REMARKS / APPLICATION ADVICE**

If the thickness is more than 10 mm, it is advisable to preheat at 150 - 250°C Welding with short arc preferable Electrode with 90° angle on material

