AISi12

CLASSIFICATION

 ISO 18273
 Al 4047A (AlSi12(A))
 F-Nr
 23*

 *:Deviation.see remarks
 Mat-Nr
 3.2585

GENERAL DESCRIPTION

Especially for welding forged and cast aluminium alloys containing more than 7% Si as main alloying element Also applicable as surfacing electrode Good weldability, no porosity

Applicable when Al-properties are unknown

WELDING POSITIONS (ISO/ASME)

CURRENT TYPE

DC+

DA/4C





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

Al Si

bal. 12.0

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

MECHANICAL FROI ERTIES, FIT ICAL, ALL WELD METAL					
	Condition	0.2% Proof strength (N/mm²)	Tensile strength (N/mm²)	Elongation (%)	
Typical values	AW	80	180	5	

PACKAGING A	ACKAGING 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	

AlSi12: 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.

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EXAMPLES OF MATERIALS TO BE WELDED

Aluminium cast alloys with silicon level up to approx. 12%, like	Mat. Nr
G-AlSi 10Mg	3.2381
G-AISi 12	3.2581

CALCULATION DATA

Sizes Diam. x length (mm)	Current range (A)	Current type	Weight/ 1000 pcs (kg)	
2.5 x 350	40-70	DC+	8.8	
3.2 x 350	60-90	DC+	13.2	
4.0 x 350	80-120	DC+	19.6	

^{*}Stub end 35mm

WELDING PARAMETERS, OPTIMUM FILL PASSES

Diameter	Welding positions				
(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 15 mm, it is advisable to preheat at 150 - 250°C

Welding with short arc preferable

Electrode with 90° angle on material

