

#### **Classification:**

DIN1732:	EL-AlSi-5
AWS-5.3:	E 4042
W.Nr.:	≈ 3.2245

# ALU 5 Si

### Description and application:

Electrode recommended for welding pure aluminium and aluminium alloys with less than 2% of alloying elements; also suitable for aluminium castings with Si content to 7%.

Slag residues should be removed to ensure non-corrosive weld beads.

## **Base materials:**

Aluminium Aluminium alloys with < 2% alloying elements Al-alloy castings <7% Al Si 5, AlMgSi0.5, AlMgSi0.8, AlMgSi1, AlMg1SiCu, AlCuMg

#### Heat treatment:

To obtain welds without pore formation, plates with thickness above 5 mm should be preheated to 200 - 250°C.

#### Coating type:

Welding current:

DC +

Welding positions:



**Redrying temperature:** 100 – 150 °C / 1 - 2h

94.5 5 < 0.4	Al	sition,wt% Si		Fe		
		_				
Yield strength $R_{eL} / Rp_{0.2}$ : > 70 MPa(N/mm <sup>2</sup> )	Mechanical properties:					
	ield strength	R <sub>eL</sub> / Rp <sub>0.2</sub> :	> 70	MPa(N/mm <sup>2</sup> )		
Tensile strength Rm: > 140 MPa(N/mm <sup>2</sup> )	Fensile strength	Rm:	> 140	MPa(N/mm <sup>2</sup> )		
Elongation A5 > 12 %	Elongation	A5	> 12	%		

## Welding and packing data:

	We	Iding parame	eters		Packing	
	φ	Length	Current	Weight/	Weight/	Weight/
	mm	mm	A	packet	carton	1000 pcs
Approvals:				kg	kg	kg *
	2.5	350	50-90	2	8	9.4
	3.25	350	70-110	2	8	13.5
	4	350	90-130	2	8	19.4

approximate data