

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		
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Yield strength $R_{eL} / Rp_{0.2}$: > 70 MPa(N/mm ²)	Mechanical properties:					
	ield strength	R _{eL} / Rp _{0.2} :	> 70	MPa(N/mm ²)		
Tensile strength Rm: > 140 MPa(N/mm ²)	Fensile strength	Rm:	> 140	MPa(N/mm ²)		
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