

**TECHNICAL DATA SHEET
ALLOY 4116**

**Green alloy
4116**

Chemical composition

Si	Fe	Mn	Cu	Mg	Zn	Cr	Ti	Others	Total others	Al
1.10 - 2.2%	0,70% max	0.5 – %	0,40% max	0,40% max	10% 40%	0.05 max	0.10% max	0,05% max	15% max	Remain

Typical physical properties

Specific density (g/cm ³)	Thermal conductivity (W/m*K)	Coefficient of linear expansion (10 ⁻⁶ K ⁻¹)
2,73	170 – 200	23,5

Mechanical Properties

Temper	Rm (N/mm ²)	R0,2 (N/mm ²)	Elong. (A%)	Bending (90°)
-O-	110 - 130	55 - 75	22%	0 x t
H12 / H22	105 - 145	>85	3%	0 x t
H14	150 - 200	>120	2%	0 x t
H16	170 - 220	>150	1%	0.5 x t
H44	150 - 200	>120	4%	0xt – 0.5xt 180°
H28	190 - 220	170 - 195	3%	0 x t
H39	240 - 280	>200	1%	0.5 x t

Tensile Strength (Rm) – Yield Strength (R0,2) – Elongation (EL)

Gauge	0.9 - 2.0 mm	/	2.1 - 3.0 mm
Rm (Mpa)	145 – 200	/	140-180
R0,2 (Mpa)	min 110	/	min 80
EL - A50 (%)	min 2%		min 12%

ending

Recommended min. bend. radius at 90°	Base Gauge (mm)	Inside t
	0,5 - 1.5	0 x t
	1.6 - 2.0	0.3 x t
	2.1 - 3.0	0.6 x t
Recommended min. bend. radius at 180°	Base Gauge (mm)	Inside t
	0,5-1.5	0 x t
	1.6-2.0	0.7 x t
	2.1-3.0	1.2 x t

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Tolerances on nominal thickness

Range of thickness (t)	Thickness tolerance for nominal width (mm)
0,5 – 1.5 mm	+/- 0,060
1.51 -2.0 mm	+/- 0,080
2.1 - 3.0 mm	+/- 0,100

Width tolerances

Thickness (mm)	Width	
	d 1250 mm	1251 -1600 mm
0.6 - 2.0	0 / +1.5 mm	0 / +2.5 mm
2.1 -3.0	0 / +2.0 mm	0 / +2.5 mm