



EN AW-3005

Also known as EN AW-Al Mn1Mg0.5 [AA 3005]

Coil and sheet for packaging, general engineering and architectural purposes

Chemical composition (in weight-%); acc. to EN 573-3

Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other (each)	Others (total)
Min.				1.0	0.20					
Max.	0.6	0.7	0.30	1.5	0.6	0.10	0.25	0.10	0.05	0.15

Physical Properties (typical values)

Density (g/cm ³)	Elastic Modulus (GPa)	Shear Modulus (GPa)	Poisson's ratio	Spec. Heat Capacity (J/gK)	Melting Point (°C)	Linear thermal expansion (20–100°C) 10 ⁻⁶ m/°C	Thermal Conductivity (W/cmK)	Electrical Conductivity (%IACS)
2,73	69.5	26.2	0.33	0.890	635 - 655	23.1	1,60	42

Mechanical Properties (static); acc. to EN 485-2 (Mill Finish), EN 1396 (Coated)

Temper	Rp _{0.2} (MPa)	Rm (MPa)	A50 (%)
0	Min. 45	115-165	Min. 12
H12	Min. 125	145-195	Min. 3
H14	Min. 150	170-215	Min. 1
H16	Min. 175	195-240	Min. 1
H18	Min. 200	Min. 220	Min. 1
H22	Min. 110	145-195	Min. 5
H24	Min. 130	170-215	Min. 4

Temper	Rp _{0.2} (MPa)	Rm (MPa)	A50 (%)
H26	Min. 160	195-240	Min. 3
H28	Min. 190	Min. 220	Min. 2
H41	Min. 80	130-180	Min. 7
H42	Min. 95	140-195	Min. 5
H44	Min. 135	165-215	Min. 3
H46	Min. 160	185-240	Min. 2
H48	Min. 180	Min. 210	Min. 1

Waiver

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