



Aluminium Alloy 5005

AW 5005 is a medium-strength alloy that offers very good resistance to atmospheric corrosion, enhanced welding features and good formability by pressing and roll forming. A major advantage is its suitability for two step colour decorative anodising.

AW 5005 Anodising Quality (AA = AQ) versus standard quality (SQ)

Anodizing quality in comparison to commercial quality comes with better surface structure.

The anodised surface is free of metallurgical defects such as casting strips or mechanical defects, which affects the final surface.

Please respect the inspection distance acc. DIN 17611/ ISO 7599.

EN AW 5005 (AlMg1)

Material according to EN 573-3

Tolerances according to EN 485-3, 485-4

Material certificate EN 10204 / 3.1

Application:

Buildings: Roofing, Cladding, Signage, Road Signs, Furniture, Anodizing structure

Doors and windows - Bridges and support structures.

Interior designs

Supplier Forms

*Coil

*Slitting coil

*Sheet

Chemical Composition (%)						
Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Zn %
0,30	0,7	0,2	0,2	0,5-1,1	0,10	0,25

Inspect. Results H14/24	
Mechanical Properties	
Property	Value
Density	2,70 g/cm ³
Melting Point	655 °C
Thermal Expansion	23,5 x 10 ⁻⁶ /K
Modulus of Elasticity	69.5 Gpa
Thermal Conductivity	201 W/m.K
Electrical Resistivity	52 % IACS
Electrical Resistivity	0,033 x 10 ⁻⁸ Ω .m

Inspect. Results H14/24	
Mechanical Properties	
Property	Value
Proof Stress	145 Mpa
Tensile Strength	160 Mpa
Elongation	11%
Shear Strength	95 Mpa
Hardness Vickers	46 HV

Inspect. Results H14/24			
Mechanical Properties			
Thickness mm	Rm (Mpa)	Rp 0,2 (Mpa)	E50%
0,7 ≤ 1,5	145-185	min 120	min. 2
1,5 ≤ 3	145-185	min 120	min. 3
3 ≤ 5	145-185	min 120	min. 4

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