

TECHNICAL DATA SHEET

Bearbeitungsdatum: 21.06.2018

Druckdatum: 25.06.2018



Aluminium

SECTION 1: Product Description, Applications, Supplier

Product Description

Aluminium, anodized

Processing temperature: -40°C to +100°C

Sheet dimension: 1000x500 mm

Thickness: 0,5 mm – 1,0 mm – 1,5 mm – 2,0 mm – 3,0 mm

Surface: matt brushed – glossy

Applications

Aluminium is anodized and suits perfectly for the engraving and printing technology. While anodized aluminium can be engraved with a laser engraver, an engraved contrast will only be realized with gold, black or colored aluminium. The silver version has a clear anodization. Aluminium is often used for industrial applications requiring a durable surface finish.

Details of the supplier of the technical data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ECKART SIGNPLASTICS GMBH

Technologiepark 10-12

91522 Ansbach

Germany

phone: +49 (0) 981 / 48 75 5-0

fax: +49 (0) 981 / 48 75 5-22

e-Mail: info@eckartgmbh.de

web site: www.eckartgmbh.de

SECTION 2: Hazards identification

This material is not hazardous under normal conditions.

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SECTION 3: Technical Information

ENAW-5005	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ga	V	Other elements	
	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	single	total
Min.	-	-	-	-	0,50	-	-	-	-	-	-	-
Max.	0,30	0,7	0,20	0,20	1,1	0,10	0,25	-	-	-	0,05	0,15

General properties

Water resistance:	1-2
Weather resistance:	1
Chemical resistance:	resistant against chemicals and oil (acetone, dilution, ethyl alcohol, dissolver)
Heat resistance:	decorative until 100°C functional until 400°C
UV resistance:	limited (depends on light and climate) black/gold: about 6 years colors: about 1-3 years
Scratch resistance:	only the surface can be scratched mechanically, but not the color which is closed in the anodize
Food contact	yes

Physical properties (20°C)

Density g/cm ³	2,7
Electrical conductivity MS/m	30,1
Thermal conductivity W/(mK)	205
Thermal expansion coefficient 10-6 /K	23,7
Modulus elasticity N/mm ²	70000

Mechanical properties

Temper	Thickness [mm]	Rm [N/mm ²] min	Rp0,2 [N/mm ²] min	A50 [%] min
H18	1,000 - 2,000	185	165	2

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SECTION 4: Handling and Storage

The sheets must be stocked in a dry and clean place to ensure the processing without any problems.

SECTION 5: Environmental Statement

This material is conform to the EU Directive 2011/65/EU of the European Parliament ('RoHS' = Restriction of the use of certain Hazardous Substances in electrical and electronic equipment). This means, that this material is free of restricted substances like lead, cadmium, mercury, hexavalent chromium, polybromated biphenyls (PBB) and polybromated diphenyl ethers (PBDE).

SECTION 6: Other information

The above state information is based on the present state of knowledge and experience. The data sheet describes products in respect of safety requirements. This information cannot be considered as a quality or product warranty. The product is suitable only for the above mentioned standard usage parameters. The manufacturer declines any responsibility in case of improper use of the product when the product is exposed to stresses exceeding the values stated herein.