

Specifications for CuAl5Zn5 following the EN 1652 Copper and copper alloys – Plate, sheet, strip and circles for general purpose

Date: März 1998

Regulations		
Regulation	Symbol	Number
following the EN 1652	CuAl5Zn5	-

Chemical composition Composition in % (m/m) following the EN 1652		
Element	Min.	Max.
Cu	Rest	-
Al	4,50	5,50
Zn	4,50	5,50
Others	-	0,05

Mechanical properties of CuAl5Zn5 following the EN 1652									
Material			Tensile strength R_m N/mm ²		0,2% proof strength $R_{p 0,2}$ N/mm ²		Elongation A_{50mm} for thickness up to 2,5 mm %	Hardness HV	
Symbol	Number	Material condition	Min.	Max.	Min.	Max.	Min.	Min.	Max.
CuAl5Zn5	-	R410	410	-	-	200	58	-	-
		H085	-	-	-	-	-	85	-

Physical Properties of CuAl5Zn5	
density :	8,18 g/cm ³
melting point:	950 - 1.080 °C
thermal conductivity at 20 °C :	80 W/mK
electrical conductivity at 20 °C :	≥ 7-8,5 m/Wmm ² ≥ 12-15 % IACS
coefficient of expansion :	ΔT 100 K : 1,70 mm/m
modulus of elasticity at 20 °C :	113 kN/mm ²

For more information, please contact:

KME Germany AG & Co. KG

BU Rolled Roofing / Project Consulting (Int.)

Klosterstraße 29, 49074 Osnabrück, Germany

Tel. +49 (0) 541 / 321 - 2000

Fax +49 (0) 541 / 321 - 2111


www.tecu.com, info-tecu@kme.com

Information within this paper might be preliminary and subject to changes due to technical advance.

Please pay attention to the separate important application and processing instructions of this TECU® product.

Product Data Sheet for TECU® Gold

Stand: 06.10.2008

Product specifications for TECU® Gold thickness 0,50 – 1,00 mm	
width	500 mm - 670 mm
width tolerance	0 / +2 mm
length tolerance for sheets	0 / +5 mm
thickness tolerance	± 0,04 mm
longitudinal edge straightness tolerance - sheets up to 3000 mm - strips	up to 1 mm per 1000 mm gauge length, max. 3 mm for 3000 mm gauge length up to 1 mm per 1000 mm gauge length, max. 5 mm for 5000 mm gauge length
flatness transverse direction of rolling	< 0,2 % of band width
technical data	Tensile strength (R _m): min. 410 N/mm ² Proof strength (R _{p0,2}): max. 200 N/mm ² Elongation (A50): ≥ 58%
hardness HV	min. 85
availability	strips and sheets
coil inside diameter - Ø - coil (small) - coil (big)	300 mm, 400 mm 500 mm, 600 mm
surface	yellowish mill finish
surface foliation	foliation on one side
application field	building purpose
Environmental Product Declaration	according to ISO 14025
	CE-marked according to EN 14783 and EU directive 89 / 106 / EEC (CPD) more information on www.kme.com/ce

mechanical processing and behaviour at the atmosphere	
cold-forming	good
soft-soldering	good
hard-soldering	not possible
TIG-welding	not possible
gas-shielded welding	not possible
land-, sea- and / or industrial atmosphere	good

For more information, please contact:

KME Germany AG & Co. KG

BU Rolled Roofing / Project Consulting (Int.)

Klosterstraße 29, 49074 Osnabrück, Germany

Tel. +49 (0) 541 / 321 - 2000

Fax +49 (0) 541 / 321 - 2111

www.tecu.com, info-tecu@kme.com

Information within this paper might be preliminary and subject to changes due to technical advance.
Please pay attention to the separate important application and processing instructions of this TECU® product.