Specifications for Cu-DHP according to EN 1172 Copper and copper alloy sheet and strip for building purposes
Date: October 1996

Regulations		
Regulation	Symbol	Number
EN 1172	CU-DHP	CW024A
UNS*	C 12200	*Unified Numbering System (USA)

Chemical composition [1] Composition in % (m/m) according to EN 1172		
Element	Min.	Max.
Cu	99,90	-
P	0,015	0,040

[1] basic material for TECU® Oxid

Mechanical properties of Cu-DHP according to EN 1172 [1]									
Material			Tensile strength R_m N/mm²		0,2% proof strength $R_{p\ 0,2}$ N/mm²		Elongation A_{50mm} for thickness up to 2,5 mm %	Hardness HV	
Symbol	Number	Material condition	Min.	Max.	Min.	Max.	Min.	Min.	Max.
Cu-DHP	CW024A	R240	240	300	180	-	8	-	-
		H065	-	-	-	-	-	65	95

[1] basic material for TECU® Oxid

Physical Properties of Cu-DHP	
density :	8,93 g/cm³
melting point:	1.083 °C
thermal conductivity at 20 °C :	293 - 364 W/mK
electrical conductivity at 20 °C :	42 – 52 m/Wmm²
coefficient of expansion :	ΔT 100 K : 1,7 mm/m
modulus of elasticity at 20 °C :	132 kN/mm²

For more information, please contact:

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Product specifications for TECU® Oxid (R240) thickness 0,50 – 1,00 mm	
width	500 mm - 1150 mm
width tolerance	0 / +2 mm
length tolerance for sheets	0 / +5 mm
thickness tolerance	± 0,02 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 [1] [1] basic material for TECU® Oxid	Tensile strength (R_m): 240 – 285 N/mm² Proof strength ($R_{p0,2}$): 180 - 230 N/mm² Elongation (A50): min. 15%
hardness HV	max. 90
availability	strips and sheets
coil inside diameter - ∅ - coil (small) - coil (big)	 400 mm 500 mm, 600 mm
surface	anthracite-brown pre-oxidised on both sides
surface foliation	on request foliation on one side possible
application field	building purpose
Environmental Product Declaration	according to ISO 14025
CE	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	very good
soft-soldering	very good
hard-soldering	in visible areas not possible
TIG-welding	in visible areas not possible
gas-shielded welding	in visible areas not possible
land-, sea- and / or industrial atmosphere	very good

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