

Specification Nordic Brass

CuZn15



CW502L

Typical use

Architecture, eg. roofing, facades, window and door frames, decoration.

Nordic Brass & Nordic Brass Weathered

Dimension:

Width range	max. 1000 mm
Thickness range	0,5...2,0 mm
Coils	max. 3500 kg
Sheet length	max. 6000 mm

Physical properties:

Density	abt 8,75 kg/dm ³
Thermal expansion	$18 \cdot 10^{-6} 1/K$ ($\Delta T 100^{\circ}C$ = 1,8mm/m)
Specific heat	375 J/kg K
Thermal conductivity	160 %W/Cm

Chemical Composition %:

Copper (Cu)	84,0...86,0
Zinc (Zn)	14,0...16,0

Fabrication properties:

Formability	Excellent
Soldering	Excellent
Brazing	Excellent
TIG	Good
MIG	Good
EBW	Poor

Brazing can lead to evaporation of zinc.

Mechanical properties:

The material fulfils the requirements of standard EN 1172:2001(E).

Designation			Tensile strength R_m		0,2 % proof strength $R_{p0,2}$		Elongation A_{50mm}	Hardness HV	
Material symbol	Material number	Material condition	N/mm ² min.	N/mm ² max.	N/mm ² min.	N/mm ² max.	% min.	min.	max.
Cu-DHP CuZn0,5	CW024A CW119C	R220	220	260	-	140	33	-	-
		H040	-	-	-	-	-	40	65
		R240	240	300	140	-	8	-	-
		H065	-	-	-	-	-	65	95
		R290	290	-	250	-	-	-	-
		H090	-	-	-	-	-	90	-
CuSn0,15	CW117C	R250	250	320	200	-	9	-	-
		H060	-	-	-	-	-	60	90
		R300	300	370	250	-	4	-	-
		H085	-	-	-	-	-	85	110
CuAl5Zn5Sn1	CW309G	R400	400	-	170	-	45	-	-
		H080	-	-	-	-	-	80	-
CuSn4	CW450K	R290	290	390	-	190	40	-	-
		H070	-	-	-	-	-	70	100
CuZn15	CW502L	R310	310	370	200	290	10	-	-
		H090	-	-	-	-	-	90	115