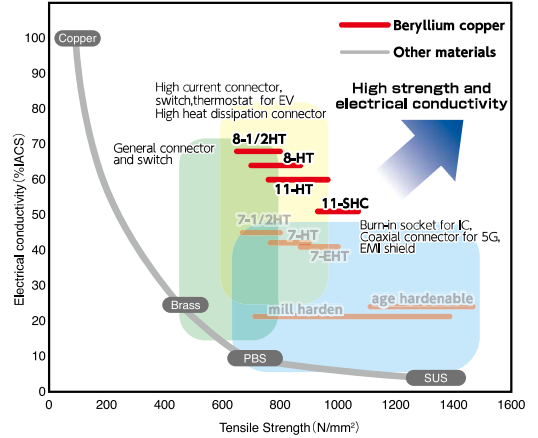


Mechanical Properties of High Electrical Conductivity Material

Alloy 8 & Alloy 11



Properties of Strip

Alloy	Temper	Designation ⁵⁾	Tensile test ¹⁾			Hardness test ²⁾	Electrical conductivity (%IACS) ³⁾
			Tensile strength (N/mm ²)	Yield strength 0.2% offset (N/mm ²)	Elongation (%)	Vickers hardness HV	
8	1/2HT	BeCu _R ^P 08-1/2HT	650-800 ⁴⁾	min. 550	min. 10	180-230	min. 60
	HT	BeCu _R ^P 08-HT	700-870 ⁴⁾	min. 600	min. 5	210-260	min. 60
11	HT	BeCu _R ^P 11-HT	760-965 ⁴⁾	min. 655	min. 5	230-280	min. 50
	SHC	BeCu _R ^P 11-SHC	930-1070 ⁴⁾	min. 850	min. 5	280-330	min. 45

1) Values are applicable to thickness 0.1 mm and over. 2) Values are applicable to thickness 0.1mm and over. 3) Electrical conductivity is for design guidance only. 4) The upper limits of tensile strength are for design guidance only. 5) P and R in column "Designation" represent "strip cut to length" and "strip in coils".

Tolerances

Thickness tolerance of Alloy 11 (mm)

Thickness	Tolerance
0.08	±0.005
over 0.08 up to 0.10	±0.006
∕ 0.10 ∕ 0.15	±0.008
∕ 0.15 ∕ 0.20	±0.009
∕ 0.20 ∕ 0.25	±0.010
∕ 0.25 ∕ 0.40	±0.015
∕ 0.40 ∕ 0.55	±0.020
∕ 0.55 ∕ 0.70	±0.025
∕ 0.70 ∕ 0.90	±0.030
0.90 less than 1.2	±0.040

note1) In case of strip cut to length tolerance shall be determined individually.

note2) 8-1/2HT lower limit thickness 0.1mm

Length tolerance (mm)

Specified thickness	Specified length		Tolerance
	From	Up to and including	
0.08		1.0	max. 1000
			+10 - 0

note) 8-1/2HT lower limit thickness 0.1mm

Width tolerance (mm)

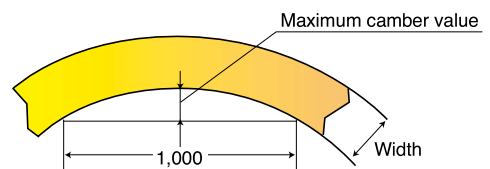
Specified width		Tolerance			
		Strip cut to length		Strip in coils	
Specified thickness	Over	Up to and including	max. 200	max. 100	Over 100 up to and including 200
	from 0.08	0.55		+2 -0	±0.1
0.55	1.0		+2 -0	±0.2	±0.3
1.0	2.0		-	±0.2	±0.3

note) When the tolerance is specified either plus or minus side only, the same range of tolerance shall be applied.

note2) 8-1/2HT lower limit thickness 0.1mm

Camber tolerance (mm)

Specified width		Maximum value
Over	Up to and including	Over 1000 length
from 4	13	4
13	50	3
50	100	2
100	200	1



*Please note that the contents of this catalog are subject to change without notice.