

高性能磷青铜

Hyper phosphor bronze

- 高性能磷青铜的化学成分与一般磷青铜相同。
Chemical composition of Hyper Phosphor Bronze is the same as that of the conventional ones.
- 通过制造管控的调整, 提高材料的折弯性能和强度。
By controlling the manufacturing process, Hyper Phosphor Bronze achieves higher strength with the same bend radius.

化学成分和物理特性

Chemical composition and physical properties

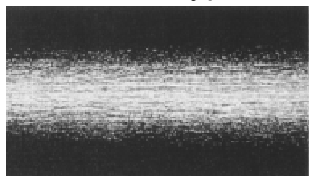
Alloy	Chemical composition (%)	Modulus of elasticity (GPa)	Electrical conductivity (%IACS)
C5210(HP)	Cu-8.0Sn-0.2P	110	12
C5240(HP)	Cu-10Sn-0.15P	100	10

機械特性

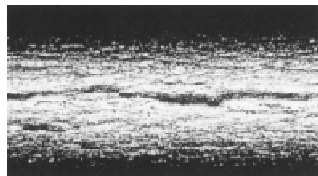
Mechanical properties

Alloy	Temper	0.2% Yield strength (MPa)	Elongation (%)	Vickers Hardness	MBR/t (BW) 0.15t
C5210 (HP)	H	570	33	210	0
	EH	690	22	240	0.5
	SH	760	18	250	2.0
	ESH	820	12	270	4.0
	XSH	880	3	310	-
NKC164	H	620	30	220	0
	EH	760	19	250	1.0
	SH	810	12	270	3.0
	ESH	940	3	290	-
	XSH	1000	1	≥ 290	-

高性能材 Hyper



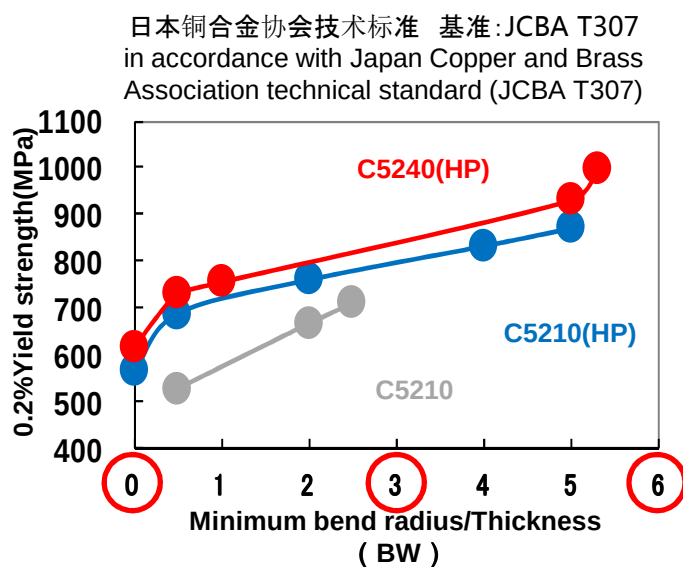
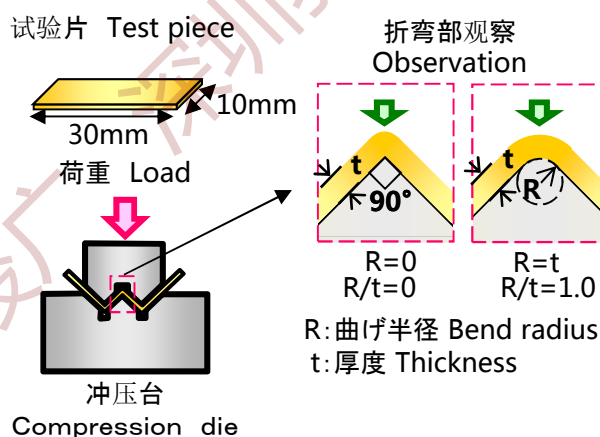
一般材 Normal



C5210-EH, BW, R/t=1.0
(Sample size)

W折弯试验

W bending test



MBR/t: 不发生开裂的最小弯曲半径(R)/材料板厚(t)
Minimum bend radius without cracking (R)/thickness (t)

