



高导电合金 —高电流连接器·放热用途—

High Conductivity Alloy —For High Current Connectors and Heat Spreader.

为传统合金1.5~2倍的高导电率、高热传导率。

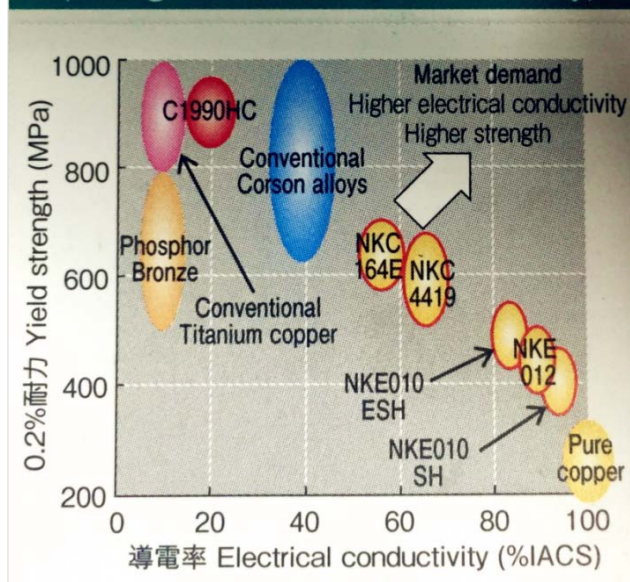
High electrical and thermal conductivity 1.5 to 2 times that of conventional copper alloys.

- C1990HC: 高导电钛铜 High Conductivity Titanium Copper
- NKC4419, NKC164E: 高导电可鲁逊合金 High Conductivity Corson Alloys
- NKE010, NKE012: 高导电合金 High Conductivity Copper Alloys

化学成分、機械的および物理的特性
Chemical composition, mechanical and physical properties

製品名 Alloy	化学成分 Chemical composition (wt%)	質別 Temper	0.2%耐力 Yield strength (MPa)	伸び Elongation (%)	導電率 Electrical conductivity (%IACS)	熱伝導率 Thermal conductivity W/(m·K)
C1990HC	Cu-3Ti	EH	900	2	20	84
NKC164E	Cu-1.6Ni-0.35Si	H	610	12	55	240
		EH	670	5		
NKC4419	Cu-1.9Co-0.44Si	1/4H	480	17	65	260
		H	650	8		
NKE010	Cu-0.1Zr	SH	450	10	93	363
		ESH	530	8	85	337
NKE012	Cu-0.12Sn	H	420	3	90	350
		EH	490	2		

銅合金特性マップ(強度 vs 導電率)
Property map of copper alloys
(strength vs electrical conductivity)



導電率と熱伝導率の比較グラフ
Comparison between electrical conductivity and thermal conductivity

