



# **YUANG-HSIAN METAL INDUSTRIAL CORP.**



元祥金屬工業股份有限公司



# 機械性質

## 機械性質 Mechanical Properties



合金編號 Alloy No.	質別 Temper Grade	記號 Designation	直徑及對邊距離 Diameter(mm)	抗拉試驗TENSIL	
				抗拉強度 Strength Kg/mm <sup>2</sup>	伸長率 Elongation(%)
C2100	O	C2100W-O	0.5以上	205以上	20以上
	1/2H	C2100W-1/2H	0.5以上12以下	325~430	—
	H	C2100W-H	0.5以上10以下	410以上	—
C2200	O	C2200W-O	0.5以上	225以上	20以上
	1/2H	C2200W-1/2H	0.5以上12以下	345~490	—
	H	C2200W-H	0.5以上10以下	470以上	—
C2300	O	C2300W-O	0.5以上	245以上	20以上
	1/2H	C2300W-1/2H	0.5以上12以下	375~540	—
	H	C2300W-H	0.5以上10以下	520以上	—
C2400	O	C2400W-O	0.5以上	255以上	20以上
	1/2H	C2400W-1/2H	0.5以上12以下	375~610	—
	H	C2400W-H	0.5以上10以下	590以上	—
C2600	O	C2600W-O	0.5以上	275以上	20以上
	1/8H	C2600W-1/8H	0.5以上12以下	345~440	10以上
	1/4H	C2600W-1/4H	0.5以上12以下	390~510	5以上
	1/2H	C2600W-1/2H	0.5以上12以下	490~610	—
	3/4H	C2600W-3/4H	0.5以上10以下	590~705	—
	H	C2600W-H	0.5以上10以下	685~805	—
	EH	C2600W-EH	0.5以上10以下	785以上	—
C2700	O	C2700W-O	0.5以上	295以上	20以上
	1/8H	C2700W-1/8H	0.5以上12以下	345~440	10以上
	1/4H	C2700W-1/4H	0.5以上12以下	390~510	5以上
	1/2H	C2700W-1/2H	0.5以上12以下	490~610	—
	3/4H	C2700W-3/4H	0.5以上10以下	590~705	—
	H	C2700W-H	0.5以上10以下	685~805	—
	EH	C2700W-EH	0.5以上10以下	785以上	—



# 化學成分表

## 化學成分表 Chemical Requirements

合金編號 Copper Alloy CNS & JIS No.	化學成分 Composition(%)										備註 Remark
	銅 Cu	鉛 Pb	鐵 Fe	鋅 Zn	錫 Sn	磷 P	錳 Mn	鎳 Ni	矽 Si	銅錫磷 Cu+Sn+P	
C2100	94.0~96.0	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C2200	89.0~91.0	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C2300	84.0~86.0	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C2400	78.5~81.5	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C2600	68.5~71.5	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C2700	63.0~67.0	<0.05	<0.05	Rem.	—	—	—	—	—	—	
C5191	Rem.	—	—	—	5.5~7.0	0.03~0.35	—	—	—	>99.5	
C5212	Rem.	—	—	—	7.0~9.0	0.03~0.35	—	—	—	>99.5	
C6510	Rem.	<0.05	<0.8	<1.5	—	—	<0.7	—	0.8~2.0	—	
C6550	Rem.	<0.05	<0.8	<1.5	—	—	<1.5	<0.6	2.8~3.8	—	
C7521	61.0~67.0	<0.10	<0.25	Rem.	—	—	0~0.50	16.5~19.5	0.8~2.0	—	
C7541	59.0~65.0	<0.10	<0.25	Rem.	—	—	0~0.50	12.5~15.5	—	—	

# Wire Products

Brass Wire

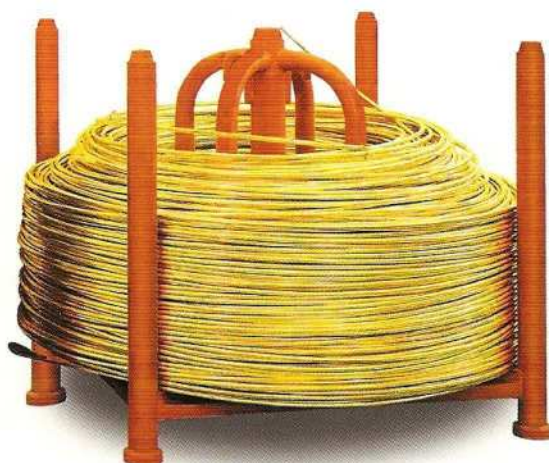
Free Cutting Brass Wire & Rod

Nickel Silver Wire

EDM Cutting Wire

Phosphor Bronze Wire

Silicon Bronze Wire





# 值得您信賴的產品 The products is worthy of confidence.

## 特性及用途 Specialities and Utilities

合金種類 Alloy No.	符號 Symbol	特性及用途〈供參考〉 Specialities and Utilities
C2100	C2100W	<p><b>青銅</b> 適用於：建築用的、蝕刻版、燒烤用架、遮蔽網布、門窗框等隙縫處為防風雨而裝之薄金屬片，裝飾用的紋盾、電線束緊器、海用五金、螺釘、螺絲、子彈頭、旋轉械具、汽車水箱熱感應器，膏膏盒、服裝用珠寶、裝飾品、網絲、似玻璃質的瓷釉材料、音、光、電波的導絲線。</p> <p><b>Commercial bronze</b> Typical uses. Architectural: etching bronze, grillwork, screen cloth, weather stripping. Hardware: escutcheons, kick plates, line clamps, marine hardware, rivets, screws, screw shells. Munitions: primer caps, rotating bands. Miscellaneous: compacts, lipstick cases, costume jewellery, ornamental trim, screen wire, base for vitreous enamel, wave guides</p>
C2200	C2200W	
C2300	C2300W	<p>色澤美觀、加工性、耐蝕性良好，多用於裝飾用個人配件、零件、線網紗、電子零件。</p> <p>Red Brass, 85/15 Gilding Metal, resistant to dezincification and stress corrosion. Jewellery, pins, rivets and screws, fasteners, screens, zip fasteners. 80/20 Gilding Metal resistant to dezincification and stress corrosion. Facades, outdoor cladding, panels, formed angles and channels, wire cloths, screens, zip fasteners, pins, rivets and screws. Deep-Drawing Brass. Cartridge Brass. Deep-Drawn components, cartridge cases and primer caps, components in electrical devices, zip fasteners spectacle frames.</p>
C2400	C2400W	
C2600	C2600W	<p>具有良好之加工性、冷鍛性、沖製性、使用於鉚釘、機械螺釘、插鎖、彈簧線網紗、尖尾螺絲、拉鍊、線切割線、彈藥殼。</p> <p>Common Brass, suitable for cold press working and heading. Pins, rivets, nuts, springs, accessories and components in electrical devices, indoor cladding and panels, formed Angles and channels EDM Wire.</p>
C2700	C2700W	
C5191	C5191W	<p>線之耐疲勞性、耐蝕性、耐磨性良好，適用於螺旋彈簧、彈簧扣、電機用線、銅絲、拉鍊及特殊螺絲。</p> <p>Phosphor Bronzes, high strength and hardness, excellent spring properties, good resistance to corrosion, wear and fatigue. Electrical contacts, spring, fasteners, clips, switch components, cold headed screws, rivets and bolts, welding rods, wire cloths, spectacle frames.</p>
C5212	C5212W	



合金種類 Alloy No.	符號 Symbol	特性及用途〈供參考〉 Specialities and Utilities
C6510	C6510W	<p><b>低含量矽青銅</b> 適用於：航太空業用：水、油壓線、錨釘、螺釘、纜線束緊夾、帽釘、機械螺釘、航海業五金、螺帽、鉚釘、U型螺釘。</p> <p><b>Low-silicon bronze</b> Typical uses. Aircraft: hydraulic pressure lines. Hardware: anchor screws, bolts, cable clamps, cap screws, machine screws, marine hardware, nuts, pole line hardware, rivets, U-bolts. Industrial: electrical conduits, heat exchanger tubes, welding rod.</p>
C6550	C6550W	<p><b>高含量矽青銅</b> 適用於：航太空業用：水、油壓線、螺釘、束緊器、開尾栓〈防止脫落所用的〉螺帽、門門、航海五金、釘子、螺絲、軸承板、電纜、電波道、化學設備、電導線管、鍋壺五金、活塞環、水油槽、螺釘、軸心、螺旋槳軸心、遮蔽布、絲、板。</p> <p><b>High-silicon bronze</b> Typical uses. Aircraft: hydraulic pressure lines. Hardware: bolts, burrs, butts, clamps, cotter pins, hinges, marine hardware, nails, nuts, pole line hardware, screws. Industrial: bearing plates, bushings, cable, channels, chemical equipment, heat exchanger tubes, kettles, piston rings, tanks, rivets, screen cloth and wore, screen plates, shafting. Marine: propeller shafts.</p>
C7521	C5721W	<p>色澤優美，線有良好之耐疲勞性，耐蝕性，適用於特殊彈簧、電器零件、醫療儀器、裝飾用品、相機零件、光學零件、眼鏡用品及特殊螺絲。</p> <p>Good resistance to atmospheric corrosion, attractive silver-white colour, good spring properties.</p>
C7541	C7541W	<p>Springs, clips, rivets, instrument and camera parts, spectacle frames, optical parts, jewellery, zip fasteners.</p>





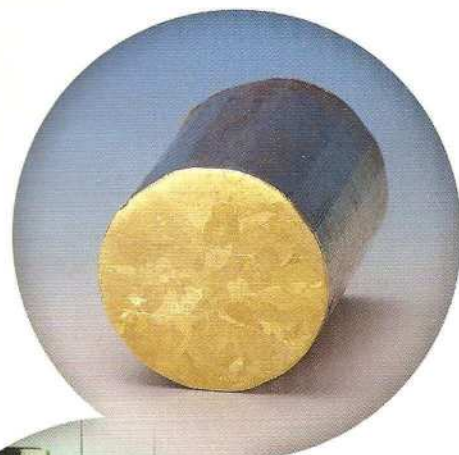
## 致力於品質與研發， 不斷提升品質

*Devoting in quality control and R&D,  
enhance the products quality.*

為了追求更好的品質，我們投資更多化學儀器與物理儀器方面的檢驗，以確保品質的穩定，在環保方面，更引進濾袋式廢煙處理設備，符合環保排放標準。

*For* pursuit high quality, we invest more instrument of chemical and physical for inspection, to assure the stability of quality. In the environment protection filed, we employ the equipment with filter bag type for exhausting fixture to meet the standard of environment protection.

結晶體 Grain Size



電腦萬能材料試驗機  
Computer Universal  
Testing Machine



金相顯微鏡 Metallic Graph Microscope



X 光電腦分析儀 Vacuum X-ray Spectrograph



