



FINE WIRE BUILT TO YOUR SPECIFICATION

"No matter how small or how unusual your wire requirement is, we will build a prototype for you."



CFW 成立于 1961 年，一直致力于生产总类齐全的金属及合金线产品，几十年来我们一直为客户提供优异的产品。

CFW 提供的产品应用与各个行业，如医疗、科研、航天等领域。



CFW 线材

California Fine Wire Co. 线材总类齐全

- 铜及其合金线、电阻线、贵金属线
- 镍及其合金线、难熔金属线、金属复合线
- 铝及其合金、热偶线、Glass Sealing Alloys
- 半导体、RTD 线、高温线（陶瓷绝缘）
- 定制合金线、保险丝、Fine Wire & Ribbon, Potentiometer Alloys 等

线材数据表（如需更详细资料请联系我们）

Alloys

	MATERIAL	SPECIFIC RESISTANCE (Ω -CM/F)	MELTING POINT $^{\circ}$ C	COMPOSITION
Aluminum				
1	ALUMINUM 1% SILICON	15.2	657	
2	ALUMINUM 1199	15.97	660	Al99.99%
3	ALUMINUM EC 1350	16.83	657	Al99.45%
4	ALUMINUM 2024	20.25	638	Al93.84%Cu4.5%Mg1.5%Mn0.16%
5	ALUMINUM 3003	20.25	634	Al98.8%Mn1.2%
6	ALUMINUM 4043	25	632	Al94.75%Si5.25%
7	ALUMINUM 5005	19.95	652	Al99.2%Mn0.8%
8	ALUMINUM 5052	10.23	649	Al97.25%Cr0.25%Mn2.5%
9	ALUMINUM 5056	35.79	638	Al94.6%Cr0.1%Mg0.1%Mn0.1%
10	ALUMINUM 6061	23.04	649	Al97.9%Cr0.25%Cu0.25%Mg1%Si0.6%
Copper				
1	ALLOY 725	94.3	1060	Cu88.2%Ni9.5%Sn2.3%
2	BE COPPER ALLOY 10 CDA 175	22.8	1029	Be0.55%Co2.55%Cu96.9%
3	BE COPPER ALLOY 25 CDA 172	46.2	865	Be1.8%Cu98.1%
4	BE COPPER CDA 17410	36.9	1025	Be0.3%Co0.5%Cu99%
5	BRASS FREE-CUT CDA 360	39.9	885	Cu61.5%Pb3.1%Zn35.4%
6	BRASS 7030 CDA 230	37	915	Cu70%Zn30%
7	BRASS GILDING CDA 210	18.5	1050	Cu95%Zn5%
8	CADMIUM COPPER CDA 162	11.5	1030	Cd1%Cu99%

9	COMMERCIAL BRONZE 90% CDA 220	23.6		Cu90%Zn10%
10	COPPER 27% NICKEL CLAD	14	1100	Cu99.9%Ni99%
11	COPPER 99.95% CDA 102 OF	10.3	1083	Cu99.5%min
12	COPPER 99.99% CDA 101	10.3	1083	Cu99.99%min
13	COPPER ETP MAGNET WIRE	10.3		Cu99.9%min
14	COPPER NICKEL 20%	160	1150	Cu79%Ni21%
15	COPPER ZIRCONIUM CDA 150	11.2	980	Cu99.85%Zr0.15%
16	CUPRO NICKEL 70-30	225	1170	Cu69.5%Fe0.5%Ni30%
17	LOW BRASS CDA 240	32.4	965	Cu80%Zn20%
18	NICKEL SILVER CDA 752	173	1070	Cu65%Ni18%Zn17%
19	NICKEL SILVER CDA 757	130	1040	Cu65%Ni12%Zn23%
20	NICKEL SILVER CDA 764	189	1020	Cu60%Ni18%Zn22%
21	PD-135	11.3	1080	Cd1%maxCr1%maxCu99%min
22	PH BRONZE 5% CDA 510 A	69.1	950	Cu94.8%P0.2%Sn5%
23	PH BRONZE 8% CDA 521 C	79.8	880	Cu92%P0.16%Sn8%
24	PH BRONZE 10% CDA 524 D	94.3	845	Cu90%Sn10%
Nickel				
1	ALLOY 99	48	1450	Ni99.8%min
2	DURANICKEL 301	255	1450	Al4%-4.75%Ni93%Ti0.25%-1%
3	MONEL 400	290	1350	Cu32.5%Fe2.5%Mn2%Ni63%
4	MONEL 404	319	1299	Cu43%-48%Ni52%-57%
5	Monel K 500	370		Al2.3%-3.15%Cu23.35%-34.5%Fe2%maxMn1.5%maxNi63%-70%
6	NICKEL 205	50	1450	Ni99.45%min
7	NICKEL 211	102	1430	Mn4.75%Ni93.7%
8	NICKEL 220	45	1450	
9	NICKEL 270	45	1450	Ni99.97%min
10	NICKEL A/200	48	1450	Ni99%min
Precious Metal				
1	ALLOY 20-245	245		
2	ALLOY 406	75		
3	ALLOY 411	37.0009		Ag89%Pd11%
4	ALLOY 417	57		

5	ALLOY 422	180	1880	
6	ALLOY 443	80		
7	ALLOY 446	190		
8	ALLOY 486	610	1700	
9	GOLD 99.99% BE MOD	12.6	1063	Au99.99%min
10	GOLD 99.99%	14.14	1063	Au99.99%min
11	PALLADIUM	60	1554	Pd99%min
12	PLATINUM 8% TUNGSTEN	400	1870	Pt92%W8%
13	PLATINUM 10% IRIDIUM	150	1775	Ir10%Pt90%
14	PLATINUM 10% RHODIUM	111	1850	Pt90%Rh10%
15	PLATINUM 20% IRIDIUM	186	1840	Ir20%Pt80%
16	PLATINUM 20% RHODIUM	125	1900	Pt80%Rh20%
17	PLATINUM PURE TC GRADE	64	1773	Pt99.99%min
18	RHODIUM 99.8%	30	1960	Rh99.8%min
19	SILVER 99.99%	8.8	960	Ag99.99%
Resistance Wire				
1	MANGANIN 230 SHUNT	230	1020	Cu84%Mn12%Ni4%
2	MANGANIN 290	290	1020	Cu84%Mn12%Ni4%
3	NICKEL ALLOY 30	30	1100	Cu98%Ni4%
4	NICKEL ALLOY 60	60	1100	Cu94%Ni6%
5	NICKEL ALLOY 90	90	1100	Cu90%Ni10%
6	NICKEL ALLOY 120	120	1425	Fe30%Ni70%
7	NICKEL ALLOY 180	180	1100	Cu78%Ni22%
8	NICO	294	1210	Cu55%Ni45%
9	NIFE 5200	120	1425	Fe30%Ni70%
10	STABLOHM 610 (TOPHET D)	610	1300	Cr20%Fe45%Ni35%
11	STABLOHM 650	650	1395	Cr20%Ni80%Si1%-2%
12	STABLOHM 675	675	1350	Cr16%Fe34%Ni60%
13	STABLOHM 710	710	1377	Cr30%Ni70%
14	STABLOHM 750	750	1510	Al4%Cr15%Fe81%
15	STABLOHM 800 A	800	1395	Al2.5%Cr20%Cu2.5%Ni75%
16	STABLOHM 812	812	1510	Al4.5%Cr21%Fe74.5%
17	STABLOHM 875	875	1520	Al5.5%Cr22.5%Fe72%
Stainless Steel				
1	STAINLESS STEEL 302	420	1399	
2	STAINLESS STEEL 304	420	1399	

3	STAINLESS STEEL 305	420	1399	
4	STAINLESS STEEL 308	455	1399	
5	STAINLESS STEEL 309	170	1399	
6	STAINLESS STEEL 310	520	1399	
7	STAINLESS STEEL 316	470	1371	
8	STAINLESS STEEL 316L	445	1399	
9	STAINLESS STEEL 347	470	1399	
10	STAINLESS STEEL 430	360	1427	

Application Materials

	MATERIAL	SPECIFIC RESISTANCE (Ω-CM/F)	MELTING POINT °C	COMPOSITION
Glass Sealing Alloy				
1	Alloy 36	495	1427	Fe64%,Ni36%
2	Alloy 42	430	1427	Fe59%,Ni41%
3	Alloy 42-6	570		Cr6%,Fe52%,Ni42%
4	Alloy 52	258	1426	Fe50%,Ni50%
5	Dumet	58		Cu99.9%
6	Kovar	294	1450	Co17%,Fe54%,Ni29%
Refractory Metals				
7	Molybdenum	31	2610	Mo99.9%
8	Tantalum R05200	74.6	2890	Ta99.96%
9	Tantalum R05400	81.2	2890	Ta99.96%
10	Tantalum	81.2	2890	Ta99.96%
11	Titanium 99%	252	1660	Ti99%
12	Tungsten 99.95% CS	33	3420	W99.95%
Special Application				
13	Inconel 600	620	1354	Cr17%,Fe10%,Ni72%
14	NI SPAN C ALLOY 902	611	1455	Cr5.75%,Fe51.9%,Ni43%,Si1%,Ti2.75%
15	Steel Copper Clad 40% Cond	25.9		Cu99.99%
16	Zinc 99.95%	35.58	419	Zn99.5%
17	Zirconium 99.%	240		Zr99.9%
Spring Wire				
18	Elgiloy	599	1427	Co40%,Cr20%,Fe18%,Mo7%,Ni15%
19	Inconel 625	776	1288	Cr23%,Mo10%,Nb4.15%,Ni4.15%,Ta4.15%
20	Inconel 718	751	704	Cr17%,Fe8%,Mn2.5%,Ni63.25%,Ti3%

21	Inconel x750	731	816	Cr17%,Mn1%,Nb1.2%,Ni70%,Ta1.2%,Ti2.75%
Thermocouple Wire				
22	Alumel TC Type K STD	177	1400	Al2%,Mn2%,Ni95%
23	Chromel P TC Type E STD	425	1427	Cr10%,Ni90%
24	Chromel P TC Type K STD	425	1430	Cr10%,Ni90%
25	Constantan TC Type E STD	294	1221	Cu55%,Ni45%
26	Constantan TC Type J STD	294	1221	Cu55%,Ni45%
27	Constantan TC Type T STD	294		Cu55%,Ni45%
28	Copper TC Type T STD	10.3		Cu99.99%
29	Iron TC Type J SPL	75	1496	Fe99%

