"VIDA DONDE TODOS GANAN"

Class 4 Beryllium Copper (17200)

- AMS 4651, AMS 4725
- ASTM B194, ASTM B196, ASTM B197, ASTM B570
- MIL C-21657
- SAE J461, SAE J463
- UNS C17200
- Class 4 Copper

Class 4 Alloy has extremely high hardness and ultimate tensile strength although the electrical conductivity is lower than the Class 3 Alloy.

Class 4 Beryllium Copper (17200) is available in heat treatable tempers. Alloys are used in a wide range of applications requiring high strength and stiffness with good conductivity.

Typical uses include electrical/electronic connectors, current-carrying springs, precision screw machined parts, welding electrodes, bearings, plastic molds and corrosion resistant components.

CHEMICAL COMPOSITION

RWMA CLASS	RWMA NUMBER	DESCRIPTION	FE	W	CD	NI + CO	NI+CO +FE	CR	SI	BE	PB	ZR	AL	CU
4	17200	BERYLLIUM COPPER				.02 min	.06 max			1.80 –2.00				REM

PHYSICAL PROPERTIES

HARDNESS ROCKWELL C	CONDUCTIVITY % I.A.C.S.	YIELD STRENGTH KSI (5% EXT UNDER LOAD)	ULTIMATE TENSILE STRENGHT	ELONGATION % IN 2" OR 4" DIAMETERS
25 -32	22 – 28%	110	130	7%

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Class 4 Beryllium Copper “ULTRA AT” (17200)

- AMS 4651
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- ASTM B194
- ASTM B196
- ASTM B197
- ASTM B570
- MIL C-21657
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temper	Heat Treatment	Tensile Strength ksi	0.2% offset ksi	Elongation %	Fatigue Strength	Diamond Pyramid	Rockwell B or C	Rockwell Superficial	Electrical Conductivity % IACS
AT	3 hr. at 600 °F	165-195	140-175	3-15	40-45	353-413	C36-42	30N56-62	22-28

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