



Class 3 Beryllium Copper (17510)

- ASTM B441
- ASTM B534
- MIL C-81021
- SAE J461
- SAE J463
- UNS C17510
- Class 3 Copper

Class 3 Alloy is specifically recommended for projection welding dies, flash and butt welding dies, current carrying shafts and bushings. As castings, Class 3 Alloy (having higher strength than Class 2), is recommended for highly stressed welder structural current carrying members and heavy duty offset electrode holders.

Class 3 Alloy is generally recommended for spot welding and seam welding steels having high electrical resistance, such as stainless steels. The Class 3 Alloy is heat treatable.

CHEMICAL COMPOSITION

RWMA CLASS	RWMA NUMBER	DESCRIPTION	FE	W	CD	NI	CO	CR	SI	BE	PB	ZR	AL	CU
3	17510	BERYLLIUM COPPER	.02			1.9370	.017			.430				REM

PHYSICAL PROPERTIES

HARDNESS ROCKWELL B	CONDUCTIVITY % I.A.C.S.	YIELD STRENGTH KSI (5% EXT UNDER LOAD)	ULTIMATE TENSILE STRENGTH	ELONGATION % IN 2" OR 4" DIAMETERS
92 - 102	60%	100	115	10%