



## Class 3 Beryllium Free Copper (18000)

**C18000**  
**Class 3 Beryllium Free**

**Beryllium Free Copper (18000) meets the mechanical requirements of RWMA Class 3 Copper.**

**C18000 is utilized when a combination of very good mechanical strength along with moderate electrical and thermal electrical conductivity are required. C18000 is a viable substitute for C17500 and C17510 for many applications. C18000 is a heat treatable copper alloy.**

### CHEMICAL COMPOSITION

RWMA CLASS	RWMA NUMBER	DESCRIPTION	FE	W	CD	NI	CO	CR	SI	BE	PB	ZR	AL	CU
<b>3</b>	<b>18000</b>	<b>CLASS III COPPER</b>				<b>1.8 – 3.0</b>		<b>.01-.08</b>	<b>.04-.08</b>					<b>REM</b>

### PHYSICAL PROPERTIES

HARDNESS ROCKWELL	CONDUCTIVITY % I.A.C.S.	YIELD STRENGTH KSI (5% EXT UNDER LOAD)	ULTIMATE TENSILE STRENGTH	ELONGATION % IN 2" OR 4" DIAMETERS
<b>92</b>	<b>45%</b>	<b>75</b>	<b>95</b>	<b>14%</b>