



PMX
INDUSTRIES, INC.

Alloy C15100

	Cu (1)	Zr	Iron max.	Manganese max.	Aluminum max.	AL+Mn+Fe Max.
Min./Max.	99.80 min	.015 -.15	0.005	0.005	0.005	0.01
Nominal	Bal.	.10				

(1) Cu value includes Ag.

Note: Cu + Sum of named elements, 99.9% min. Applicable Specifications: ASTM B747, B888

Expected Mechanical Properties

Temper	R.F. Grain (mm)	Tensile (ksi)	Yield (ksi) 0.2% Offset	Elongation % in 2"	Approximate Rockwell "B"	Approximate Rockwell "C"
H01	.010-.020	40-45	28-44	13-32	24-48	38-54
H02	.010-.020	43-51	40-50	6-21	42-55	50-59
H03	.010-.020	47-56	46-54	5-9	50-58	56-62
H04	.010-.020	53-62	51-59	4-6	54-62	59-64
H06	.010-.020	59-65	57-63	3-4	60-64	63-65
H08	.010-.020	64-71	62-68	3 min.	64 min.	65 min.

Physical Properties

	US Customary	Metric
Melting Point - Liquidus	2008 F	1098 C
Melting Point - Solidus	1886 F	1030 C
Density	0.323 lb/in ³ at 68 F	8.94 gm/cm ³ @ 20 C
Specific Gravity	8.94	8.94
Electrical Resistivity	11.5 ohms-cmil/ft @ 68 F	1.91 microhm-cm @ 20 C
Electrical Conductivity	95 % IACS @ 68 F	0.551 MegaSiemens/cm @ 20 C
Thermal Conductivity	208.0 Btu · ft/(hr · ft ² · °F) at 68F	360.0 W/m · °K at 20 C
Modulus of Elasticity in Tension	17500 ksi	121000 MPa
Modulus of Rigidity	6730 ksi	46400 MPa
Poisson's Ratio	0.333	0.333

C15100 is a high performance alternative to our already popular PMX XP10. Our research lab and product development team improved the stress relaxation performance of PMX 151 so it can reliably be used at service temperatures of 150C. Superior softening resistance to C110 and improved strength to bend with excellent stress relaxation makes PMX 151 ideal for many automotive and electrical interconnect applications. You should also inquire with our sales department about the reduction in total cost achieved with our scrap buyback plan for C151 – Enhanced performance and controlled total system costs – Available and supported through the PMX Alliance...That's the PMX Difference.