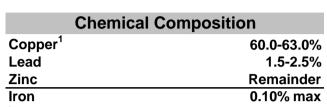




Known for its characteristics of excellent resistance to atmospheric corrosion, good strength and excellent machinability, alloy C353 has been the essential leaded Yellow Brass of choice for years. Also known as "clock brass" because of its use in clock and watch parts this alloy has found wide use in applications such as meter plates, gears, key stock and bearings. In addition to offering excellent machinability rating, alloy C353 also offers outstanding wear resistance for moving parts that are subject to frictional forces.



¹ Copper plus named elements, 99.5% min

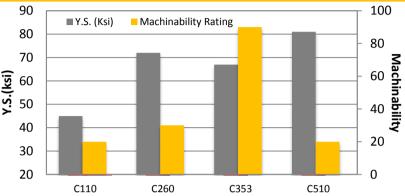


Figure 1: Comparison of Yield Strength and Machinability performance of select Hard temper copper based materials.

Physical Properties					
	English Units	Metric Units			
Density	0.306 lb/in ³ @ 68°F	8.47 g/cm ³			
Thermal Conductivity	67 BTU-ft/ft ² -hr-⁰F	113 W/mºK			
Electrical Resistivity	39.9 ohm circ mils/ft	6.63 microhm-cm			
Electrical Conductivity (annealed)	26% IACS*	0.151 megamho/cm			
Modulus of Elasticity	15,000,000 psi	105 kN/mm ²			
Thermal Capacity(Specific Heat)	0.090 Btu/lb/F° @ 68°F	377.1 J/kg ⋅ ºC @ 20ºC			
Coeff. Of Thermal Expansion		_			
68-572°F (20-300°C)	11.3 PPM/ºF	20.34 PPM/°C			
*International Annealed Copper Standard		·			

Mechanical Properties							
Temper ¹	Tensile Strength		Yield Strength ²		% Elongation ²	Rockwell B Hardness ^{2,3}	
	ksi	N/mm ²	ksi	N/mm ²		патипезз	
Annealed	46-54	315-370	21	145	56	72F	
1/4 Hard	49-59	340-405	29	200	48	52	
1/2 Hard	55-65	380-450	42	290	35	65	
3/4 Hard	62-72	425-495	55	380	21	75	
Hard	68-78	470-540	67	460	12	80	
Extra Hard	79-89	545-615	78	540	6	86	
Spring	86-95	595-655	84	580	4	89	

¹ Mechanical properties subject to change. All tempers listed are made to a Tensile Strength specification unless otherwise noted.

² Nominal Values ³ Thickness > 0.020". Rockwell F where noted

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