

Tap Compass



	Material	Condition	Hardness		COLOR RING			
			HRC	Brinell	Recommended	Alternate(s)		
	Alpha and Alpha-Beta Alloys	Ti-6Al-4V, Ti-6Al-4V ELI, Ti-6Al-2Sn-4Zr-2Mo, Ti-6Al-2Sn-4Zr-2Mo-2Si, Ti-6Al-2Sn-4Zr-6Mo	Solution treated and Aged	≤ 41	≤ 380			
		Ti-1Al-8V-5Fe, Ti-3Al-2.5V, Ti-5Al-2Sn-2Zr-4Mo-4Cr (Ti-17), Ti-6Al-6V-2Sn, Ti-7Al-4Mo		≤ 46	≤ 440			
	Beta Alloys	Ti-3Al-8V-6Cr-4Mo-4Zr, Ti-8Mo-8V-2Fe-3Al, Ti-11.5Mo-6Zr-4.5Sn, Ti-10-2Fe-3Al, Ti-13V-11Cr-3Al	Annealed or Solution treated	≤ 38	≤ 350			
		Solution treated and Aged	≤ 46	≤ 440				
Titanium Alloys, Cast	Commercially Pure	As Cast, As Cast and Annealed	99.0, Ti-0.2Pd, ASMT B367 Grades C-1, C-2, C-7A, C-7B	-	≤ 200			
			99.0, Ti-0.2Pd, ASMT B367 Grades C-3, C-4, C-8A, C-8B	≤ 25	≤ 250			
	Alpha and Alpha-Beta Alloys	Ti-5Al-2Sn, Ti-6Al-4V, Ti-6Al-2Sn-4Zr-2Mo, Ti-8Al-1Mo-1V, ASMT B367 Grades C-5, C-6	≤ 35	≤ 320				
		≤ 38	≤ 350					
Chromium-Nickel	Alpha and Alpha-Beta Alloys	As Cast	A560 2 40 2 375 Grade 50Cr-50Ni, 60Cr-40Ni	≤ 41	≤ 375			
Nickel Alloys, Cast	Wrought and Cast	Nickel 200, Nickel 201, Nickel 205, Nickel 211, Nickel 220, Nickel 230	Annealed, Cold drawn	-	≤ 170			
		MONEL Alloy 400, MONEL Alloy 401, MONEL Alloy 404, MONEL Alloy R405; A2996 Grades CZ-100, M-35; A494 Grades CZ-100, M-35	Annealed, Cold drawn, As Cast	≤ 25	≤ 250			
		Incoloy Alloys, Inconel Alloys, Hastelloy Alloys, Rene, DURANICKEL Alloy 301, MONEL Alloy 502, MONEL Alloy K500, NI-SPAN-C Alloy 902, PERMANICKEL Alloy 300	Solution treated	≤ 35	≤ 320			
		Aged	≤ 39	≤ 360				
Magnesium Alloys	Wrought and Cast	As Cast	Magnesium	--	≤ 150			
Copper Alloys	Wrought and Cast	Annealed, Cold drawn	C10100, C27000, C71500, C52400, C77000, C17200, C71500, C95500, C86500, Beryllium Copper	--	≤ 120			
Brass	Wrought and Cast	Annealed, Cold drawn, As Cast	CUZn10, CUZn20, 836, 838, Red Brass, Yellow Brass	--	≤ 180			
Bronze	Phosphor Bronze	Spring tempered	C5xxxx	≤ 24	≤ 245			
	Aluminum Bronze	Annealed, Cold drawn	C60600, C64200, 952, 953		≤ 200			
	Manganese Bronze	Annealed, Cold drawn	862, 863, 865		≤ 225			
	Silicon Bronze	As Cast	C64700, C66100, 878		≤ 115			
Plastics			Thermoplastics, Duroplastics	--	--			