














































	Material	Condition	Hardness		COLOR RING			
			HRC	Brinell	Recommended	Alternate(s)		
 Stainless Steels, Wrought	Precipitation Hardening 15-5PH, 16-6PH, 17-4PH, 17-7PH, 17-14CuMo, AF-71, AFC-77, AM-363, AM363, AM350, AM355, Custom450, Custom 455, HNM, PH13-8 Mo, PH14-8 Mo, PH15-7Mo, Stainless W	Annealed	-	≤ 200				
			≤ 25	≤ 250				
		Hardened	≤ 33	≤ 300				
			≤ 38	≤ 350				
Free Machining Stainless Steels	Medium Carbon	Annealed	430F, 430F Se		-	≤ 180		
			203 Ez, 303, 303 Se, 303 Ma, 303 Pb, 303 PlusX		≤ 28	≤ 270		
		Cold drawn	416, 416 Se, 416 PlusX, 420F, 420F Se, 440F, 440F Se		-	≤ 180		
			416, 416 Se, 416 PlusX, 420F, 420F Se, 440F, 440F Se		≤ 23	≤ 240		
		Quenched and Tempered			≤ 35	≤ 320		
Tool Steels <i>Continues on next page</i>	High Speed Steels	Annealed	M1, M2, M6, M10, T1, T2, T6		≤ 25	≤ 250		
			M3-1, M3-2, M4, M7, M30, M33, M34, M36, M41, M42, M43, M44, M46, M47, T4, T5, T8, T15		-	≤ 220		
					≤ 29	≤ 270		
	Hot Works	Quenched and Tempered	H10, H11, H12, H13, H14, H19		-	≤ 200		
					≤ 25	≤ 250		
					≤ 38	≤ 350		
	Cold Works	Annealed	H21, H22, H23, H24, H25, H26, H41, H42, H43		-	≤ 200		
			A7, D2, D3, D4, D5, D7		≤ 25	≤ 250		
			A2, A3, A4, A5, A6, A8, A9, A10, O1, O2, O6, O7					
	Stock Resisting	Annealed	S1, S2, S4, S5, S6, S7		-	≤ 220		
	Mold	Annealed	P2, P3, P4, P5, P6, P20, P21		-	≤ 150		
Special Purpose	Annealed	F1, F2, L2, L3, L6		-	≤ 200			
				≤ 25	≤ 250			

Tap Compass