

ترکیبات شیمیایی طبق ISO 898-2:2022 برای گریدهای معمولی

Class	Material and Treatment	C	Mn min.	P max.	S max.
8 (M16 and below)	carbon steel NOT quenched and tempered (NQT)	0.06-0.58	0.25	0.060	0.150
8	carbon steel quenched and tempered (QT)	0.15-0.58	0.45	0.048	0.058
10	carbon steel quenched and tempered (QT)	0.15-0.58	0.45	0.048	0.058
12 (like ISO 4032)	carbon steel quenched and tempered (QT)	0.18-0.58	0.45	0.048	0.058
12 (like ISO 4033)	carbon steel quenched and tempered (QT)	0.15-0.58	0.45	0.048	0.058

الزامات میزان سختی مطابق با ISO 898-2:2022 برای گریدهای معمولی

Hardness scale	Size	Class 8 min.	Class 8 max.	Class 10 min.	Class 10 max.	Class 12 min.	Class 12 max.
Vickers, <b>HV</b>	M5 to M16 (NQT)	200	334				
Vickers, <b>HV</b>	M5 to M16 (QT)	200	334	272	353	308	368
Vickers, <b>HV</b>	above M16 to M39 (QT)	233	334	272	353		
Vickers, <b>HV</b> (like ISO 4033)	M5 to M16 (QT)					272	353
Brinell, <b>HB or HBW</b>	M5 to M16 (NQT)	190	318				
Brinell, <b>HB or HBW</b>	M5 to M16 (QT)	195	195	268	349	304	363
Brinell, <b>HB or HBW</b>	above M16 to M39 (QT)	233	228	268	349		
Brinell, <b>HB or HBW</b> (like ISO 4033)	M5 to M16 (QT)					268	349
Rockwell, <b>HRC</b>	M5 to M16 (NQT)		33.9				
Rockwell, <b>HRC</b>	M5 to M16 (QT)		34.8	26.5	36.9	31.6	38.5
Rockwell, <b>HRC</b>	above M16 to M39 (QT)		34.8	26.5	36.9		
Rockwell, <b>HRC</b> (like ISO 4033)	M5 to M16 (QT)					26.5	36.9

