

## MECHANICAL PROPERTIES OF FASTENERS (EN ISO 898-1: 2013)

No.	Mechanical and physical properties		Strength class										
			4.8	4.8	5.8	5.8	6.8	8.8		9.8	10.9	12.9	
								d ≤ 16 mm	d > 16 mm b	d ≤ 6 mm			
1	Nominal tensile strength, $R_m$ , MPa	nom. <sup>c</sup>	400		500		600		800		900	1000	1200
		min.	400	420	500	520	600	800	830	900	1040	1200	
2	Lower yield strength $R_{eL}$ , MPa	nom. <sup>c</sup>	240	—	300	—	—	—	—	—	—	—	—
		min.	240	—	300	—	—	—	—	—	—	—	—
3	Stress at 0.2% non-proportional elongation, $R_{p0.2}$ , MPa	nom. <sup>c</sup>	—	—	—	—	—	640	640	720	800	1080	—
		min.	—	—	—	—	—	640	680	720	840	1100	—
4	Stress at 0.0045 non-proportional elongation for full-size fasteners, $R_{p0.0045}$ , MPa	nom. <sup>c</sup>	—	320	—	400	480	—	—	—	—	—	—
		min.	—	240e	—	420e	480e	—	—	—	—	—	—
5	Stress under proof load, $R_p$ , MPa	nom.	225	310	280	380	440	580	600	650	850	970	—
		$\frac{R_{p0.2}}{R_{mnom}}$ or $\frac{R_{p0.0045}}{R_{mnom}}$ or $\frac{R_p}{R_{pnom}}$	0.94	0.91	0.93	0.9	0.92	0.91	0.91	0.9	0.88	0.88	—
6	Percentage elongation after fracture for machined test pieces, $A$ , %	min.	22	—	20	—	—	13	13	10	8	8	
7	Percentage reduction of area after fractured for machined test pieces, $Z$ , %	min.	—					52		48	48	44	
8	Elongation after fracture for full-size fasteners, $A$ , %	min.	—	0.24	—	0.23	0.2	—	—	—	—	—	
9	Head soundness		No fracture										
10	Vickers hardness HV	min.	120	130	155	160	190	250	250	290	320	360	
	F <sub>0</sub> (98 N)	max.	220 f				250	320	330	360	380	420	
11	Brinell hardness, HBW	min.	114	124	147	152	181	238	242	276	304	368	
	F=300f	max.	200 f				238	304	318	342	361	414	
12	Rockwell hardness HRC	min.	67	71	79	82	88	—					
		max.	85.0 f				90.3	—					
	Rockwell hardness HRC	min.	—					22	23	28	32	39	
		max.	—					32	34	37	39	44	
13	Surface hardness, HV 0.3	min.	—					5		5.5	5.1		
14	Height of non-decarburized thread zone, $\bar{h}$ , mm	min.	—					1.2 H1		2/3 H1	2.4 H1		
	Depth of complete decarburization in the thread, $\bar{d}_1$ , mm	max.	—					0.015					
15	Reduction of hardness after retempering, HV	max.	—					20					
16	Breaking torque, $M_b$ , N m	min.	—					in accordance with ISO 898-7					
17	Impact strength, $K_{IC}$ , J	min.	—	27	—	—	27	27	27	27	—		
18	Surface integrity in accordance with		ISO 6157-1 a									ISO 6157-3	

# Iso 898 2013

**David Kirk**



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