



## PRE LOAD BOLT BS 3692

STANDARDS		BS 3692 (British Standard)															
Nominal Dia		M12		M16		M20		M22		M24		M27		M30		M36	
Coarse Pitch		1.75		2.00		2.50		2.50		3.00		3.00		3.50		4.00	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Across Flat	s	18.67	19.0	23.67	24.0	29.37	30.0	31.61	32.0	35.38	36.0	40.38	41.0	45.38	46.0	54.26	55.0
Across Corner	e	21.10	21.9	26.75	27.7	33.33	34.6	35.72	36.9	39.98	41.6	45.63	47.3	51.28	53.1	61.31	63.5
Head Thickness	k	7.82	8.18	9.82	10.18	12.78	12.21	13.785	14.125	14.785	15.215	16.785	17.215	18.74	19.26	22.74	23.26
Face Washer	d	18.12	18.37	23.2	23.27	28.8	29.27	30.74	31.21	34.51	34.98	39.36	39.98	44.36	44.98	53.24	53.86
Face Washer Depth	c	0.4		0.4		0.4		0.4		0.5		0.5		0.5		0.5	
Radios	r	0.60 Min		0.60 Min		0.80 Min		0.80 Min		0.80 Min		1.00 Min		1.00 Min		1.00 Min	
Transition Diameter	d <sub>a</sub>	14.2		18.2		22.4		24.4		26.4		30.4		33.4		39.4	
Characteristic		Standard		Size	Tensile Strength	Stress Area	Proof Load	Min Ulti Tensile	Elongation	Hardness							
										HRC							
		<b>Full Threaded Bolts</b>			N/mm <sup>2</sup>	mm <sup>2</sup>	kN	kN <sup>3</sup>	%	min	max						
General Requirement		ISO 8992		M12	800	84.3	48.9	67.4	12	22	32						
Material & Manufacture		BS EN ISO 898-1 Class 8.8		M16	830	157	91.0	125	12	23	34						
Mechanical Properties		BS EN ISO 898-1 Class 8.8		M20	830	245	147	203	12	23	34						
Thread Tolerance		6g / ISO 724, ISO 965-1		M22	830	303	182	252	12	23	34						
Dimension		ISO 898-1 / BS3692		M24	830	353	212	293	12	23	34						
Finish / Coating	Self Color (Black)	ISO 4014 as Standard		M27	830	459	275	381	12	23	34						
	Hot Dip Galvanized	BS EN ISO 10684 / BS729		M30	830	561	337	466	12	23	34						
	Zinc Electroplated	BS EN ISO 4042		M36	830	817	490	678	12	23	34						
Product Marking		Bs EN ISO 898-1 / BS3692															
For other property classes see ISO898-1 for steel and ISO 3506-1 for stainless steel respectively.																	
Whichever is shorter.																	
All dimension are based on mm																	