

Marketed By:



فاستنر بوينت (ش.ذ.م.م.)
FASTENER POINT LLC



Manufactured By:



فاستنر بوينت للصناعات (ش.ذ.م.م.)
FASTENER POINT IND. LLC

BOLT SIZE	PITCH	STRESS AREA	BOLT/SCREW & STUD ASTM A320M L7M										NUT ASTM A194M 7M				
			SHANK DIAMETER	WIDTH ACCROSS FLATS	HEAD HEIGHT	YIELD STRESS	YIELD LOAD	TENSILE STRESS	TORQUE *	REDUCTION OF AREA	HARDNESS	ELONG-ATION #	WIDTH ACCROSS FLATS	HEAD HEIGHT	PROOF STRESS	PROOF LOAD	HARDNESS
mm	mm	mm ²	mm	mm	mm	Mpa	KN	Mpa	N-m	%	HRB	%	mm	mm	Mpa	KN	HRB
M6	1	20.1				550	11.1	690	8.9	50-	-99	18-			1035	20.8	84-99
M8	1.25	36.6				550	20.1	690	21.6	50-	-99	18-			1035	37.9	84-99
M10	1.5	58.8				550	32.3	690	43.4	50-	-99	18-			1035	60.9	84-99
M12	1.75	84.3	11.73~12.00	20.67~21.00	7.24~7.76	550	46.4	690	74.7	50-	-99	18-	20.16~21.00	11.90~12.30	1035	87.3	84-99
M14	2.0	115.0	13.73~14.00	23.67~24.00	8.51~9.09	550	63.3	690	118.9	50-	-99	18-	23.16~24.00	13.60~14.30	1035	119.0	84-99
M16	2.0	157.0	15.73~16.00	26.67~27.00	9.68~10.32	550	86.4	690	185.5	50-	-99	18-	26.16~27.00	16.40~17.10	1035	162.5	84-99
M18	2.5	192.0				550	105.6	690	255.2	50-	-99	18-			1035	198.7	84-99
M20	2.5	245.0	19.67~20.00	33.00~34.00	12.12~12.88	550	134.8	690	361.8	50-	-99	18-	33.00~34.00	19.40~20.70	1035	253.6	84-99
M22	2.5	303.0				550	166.7	690	492.2	50-	-99	18-	35.00~36.00	22.30~23.60	1035	313.6	84-99
M24	3.0	353.0	23.67~24.00	40.00~41.00	14.56~15.44	550	194.2	690	625.6	50-	-99	18-	40.00~41.00	22.90~24.20	1035	365.4	84-99
M27	3.0	459.0				550	252.5	690	915.1	50-	-99	18-	45.00~46.00	26.30~27.60	1035	475.1	84-99
M30	3.5	561.0	29.67~30.00	49.00~50.00	17.92~19.48	550	308.6	690	1,243	50-	-99	18-	49.00~50.00	29.10~30.70	1035	580.6	84-99
M33	3.5	694.0				550	381.7	690	1,691	50-	-99	18-			1035	718.3	84-99
M36	4.0	817.0	35.61~36.00	58.80~60.00	21.72~23.38	550	449.4	690	2,172	50-	-99	18-	58.80~60.00	35.00~36.60	1035	845.6	84-99
M39	4.0	976.0				550	536.8	690	2,811	50-	-99	18-			1035	1,010	84-99
M42	4.5	1,120.0				550	616.0	690	3,473	50-	-99	18-	67.90~70.00	40.40~42.00	1035	1,159	84-99
M45	4.5	1,310.0				550	720.5	690	4,353	50-	-99	18-			1035	1,356	84-99
M48	5.0	1,470.0				550	808.5	690	5,210	50-	-99	18-	77.60~80.00	46.40~48.00	1035	1,521	84-99
M52	5.0	1,760.0				550	968.0	690	6,758	50-	-99	18-			1035	1,822	84-99
M56	5.5	2,030.0				550	1,116.5	690	8,394	50-	-99	18-	87.20~90.00	54.10~65.00	1035	2,101	84-99
M60	5.5	2,360.0				550	1,298.0	690	10,455	50-	-99	18-			1035	2,443	84-99
M64	6.0	2,680.0				550	1,474.0	690	12,665	50-	-99	18-	96.80~100.00	62.10~64.00	1035	2,774	84-99
M68	6.0	3,060.0				550	1,683.0	690	15,364	50-	-99	18-			1035	3,167	84-99
M72	6.0	3,460.0				550	1,903.0	690	18,394	50-	-99	18-	106.40~110.00	70.10~72.00	1035	3,581	84-99
M76	6.0	3,890.0				550	2,139.5	690	21,829	50-	-99	18-			1035	4,026	84-99
M80	6.0	4,340.0				550	2,387.0	690	25,636	50-	-99	18-	116.00~120.00	78.10~80.00	1035	4,492	84-99
M85	6.0	4,950.0				550	2,722.5	690	31,067	50-	-99	18-			1035	5,123	84-99
M90	6.0	5,590.0				550	3,074.5	690	37,148	50-	-99	18-	130.50~135.00	87.80~90.00	1035	5,786	84-99
M95	6.0	6,270.0				550	3,448.5	690	43,981	50-	-99	18-			1035	6,489	84-99
M100	6.0	6,990.0				550	3,844.5	690	51,612	50-	-99	18-	145.00~150.00	97.80~100.00	1035	7,235	84-99
Dimensions	HEAVY HEX as per ANSI/ASME B18.2.3.3M										HEAVY HEX as per ANSI/ASME B18.2.4.6M						
Markings	'FPI' 'L7M'										'FPI' '7ML'						
Tempering °C	620 (1150° F)										620 (1150° F)						
Heating for 24Hours for the Nut °C											590 (1100° F)						
Hardness After Heating											84 HRB						
Charpy Test Specimen 10X10X55	27 J min (Avg)										27 J min (Avg)						
Charpy V Notch Impact test at	-73°C Temp										-73°C Temp						
Carbon	0.38-0.48										0.37-0.49						
Manganese	0.75-1.0										0.65-1.10						
Sulfur	-0.04										0.04						
Silicon	0.15-0.35										0.15-0.35						
Chromium	0.80-1.1										0.75-1.20						
Molybdenum	0.15-0.25										0.15-0.25						
Nickle																	
Vanadium																	
Boron																	
Copper																	
Nitrogen																	
Phosphorus	-0.035										-0.035						
Material	Chromium-molybdenum Steel										AISI 4140/4142/4145						

Notes:

Left hand side of '-' is minimum value
right hand side of '-' is maximum value
Eg. 0.5-0.7 min is 0.5 and max is 0.7
Eg. -0.8 max is 0.8 no minimum value
Eg. 2.0- min is 2.0 no maximum value

* Torque value based on 75% of proof load and finish as received steel
Elongation in length of 4 times Diameter

While every care has been taken in preparation of the information, the company accepts no liability for any loss or damage either direct or consequential, Please refer Original standards for details.