

Marketed By:



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



Manufactured By:



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

		PITCH TPI		Stress area in ²			BOLT/SCREW & STUD ASTM A193 B7										NUT ASTM A194 2H						
BOLT SIZE	Inch	UNC	UNF	8UN	UNC	UNF	8UN	SHANK DIAMETER Inch	WIDTH ACCROSS FLATS Inch	HEAD HEIGHT Inch	YIELD STRESS ksi	YIELD LOAD 8UN lbf	TENSILE STRESS ksi	TORQUE * ft. lbf	REDUCTION OF AREA %	HARDNESS HRC	ELONGATION # %	WIDTH ACCROSS FLATS Inch	HEAD HEIGHT Inch	PROOF STRESS ksi	PROOF LOAD 8UN lbf	HARDNESS HRC	
																							0.0318
5/16	18	24			0.0524	0.0580																	
3/8	16	24			0.0775	0.0878																	
7/16	14	20			0.1063	0.1187																	
1/2	13	20			0.1419	0.1599																	
9/16	12	18			0.182	0.203																	
5/8	11	18			0.226	0.256																	
3/4	10	16			0.334	0.373																	
7/8	9	14			0.462	0.509																	
1	8	12	8		0.606	0.663	0.606	0.976-1.022	1.575-1.625	0.591-0.700	105	63,630	125	712	50-	-35	16-	1.575-1.625	0.956-1.012	175	106,100	24-35	
1 1/8	7	12	8		0.763	0.856	0.790	1.098-1.149	1.756-1.812	0.658-0.780	105	82,950	125	1,044	50-	-35	16-	1.756-1.812	1.079-1.139	175	138,300	24-35	
1 1/4	7	12	8		0.969	1.073	1.000	1.223-1.277	1.938-2.000	0.749-0.876	105	105,000	125	1,468	50-	-35	16-	1.938-2.000	1.187-1.251	175	175,000	24-35	
1 3/8	6	12	8		1.155	1.315	1.233	1.345-1.404	2.119-2.188	0.810-0.940	105	129,570	125	1,993	50-	-35	16-	2.119-2.188	1.310-1.378	175	216,000	24-35	
1 1/2	6	12	8		1.405	1.561	1.492	1.470-1.531	2.300-2.375	0.902-1.036	105	156,660	125	2,629	50-	-35	16-	2.300-2.375	1.433-1.505	175	261,100	24-35	
1 5/8			8				1.78	1.591-1.658	2.481-2.562	0.978-1.116	105	185,850	125	3,379	50-	-35	16-	2.481-2.562	1.556-1.632	175	309,800	-35	
1 3/4	5		8		1.90		2.08	1.716-1.785	2.662-2.750	1.054-1.196	105	218,400	125	4,276	50-	-35	16-	2.662-2.750	1.679-1.759	175	364,000	-35	
1 7/8			8				2.41	1.839-1.912	2.844-2.938	1.130-1.276	105	253,050	125	5,308	50-	-35	16-	2.844-2.938	1.802-1.886	175	421,800	-35	
2	4 1/2		8		2.50		2.77	1.964-2.039	3.025-3.125	1.175-1.388	105	290,850	125	6,508	50-	-35	16-	3.025-3.125	1.925-2.013	175	484,800	-35	
2 1/4	4 1/2		8		3.25		3.56	2.214-2.305	3.388-3.500	1.327-1.548	105	373,800	125	9,409	50-	-35	16-	3.388-3.500	2.155-2.251	175	623,000	-35	
2 1/2	4		8		4.00		4.44	2.461-2.559	3.750-3.875	1.479-1.708	105	466,200	125	13,039	50-	-35	16-	3.750-3.875	2.401-2.505	175	777,000	-35	
2 3/4	4		8		4.93		5.43	2.711-2.827	4.112-4.250	1.632-1.869	95	515,850	115	15,870	50-	-35	16-	4.112-4.250	2.647-2.759	175	950,300	-35	
3	4		8		5.97		6.51	2.961-3.081	4.475-4.625	1.815-2.060	95	618,450	115	20,757	50-	-35	16-	4.475-4.625	2.893-3.013	175	1,139,300	-35	
3 1/4	4		8		7.10		7.69				95	730,550	115	26,562	50-	-35	16-	4.838-5.000	3.124-3.252	175	1,345,800	-35	
3 1/2	4		8		8.33		8.96				95	851,200	115	33,330	50-	-35	16-	5.200-5.375	3.370-3.506	175	1,568,000	-35	
3 3/4	4		8		9.66		10.34				95	982,300	115	41,211	50-	-35	16-	5.562-5.750	3.616-3.760	175	1,809,500	-35	
4	4		8		11.08		11.81				95	1,121,950	115	50,207	50-	-35	16-	5.925-6.125	3.862-4.014	175	2,066,800	-35	
Dimensions							HEAVY HEX as per ANSI/ASME B18.2.1										HEAVY HEX as per ANSI/ASME B18.2.2						
Markings							'FPI' 'B7'										'FPI' '2H'						
Tempering °C							1100 (593 °C)										850 (455 °C)						
Heating for 24 Hours for the Nut °C																	1000 (540 °C)						
Hardness After Heating																	89 HRB <= 1-1/2" 79 HRB > 1-1/2"						
Charpy Test Specimen 10X10X55																							
Charpy V Notch Impact test at																							
Carbon																	0.4-						
Manganese																	-1.0						
Sulfur																	-0.050						
Silicon																	0.15-0.35						
Chromium																	0.75-1.20						
Molybdenum																	0.15-0.25						
Nickle																							
Vanadium																							
Boron																							
Copper																							
Nitrogen																							
Phosphorus																	-0.04						
Material							Chromium-molybdenum Steel										Medium Carbon Steel						

Notes:

- 8UN means less than 1" UNC thread and above 1" 8 TPI thread
- 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.