

CARBON STEEL

METRIC HEX NUTS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM ULTIMATE TENSILE LOAD (N)							
			THIN NUTS STYLE 0		REGULAR NUTS STYLE 1					
			CLASS 04	CLASS 05	CLASS 5	CLASS 6	CLASS 8	CLASS 10	CLASS 12	K0
M5	0.8	14.2	5400	7100	8250	9500	12140	14800	16300	-
M6	1	20.1	7640	10000	11700	13500	17200	20900	23100	-
M7	1	28.9	11000	14500	16800	19400	24700	30100	33200	-
M8	1.25	36.6	13900	18300	21600	24900	31800	38100	42500	-
M10	1.5	58	22000	29000	34200	39400	50500	60300	67300	-
M12	1.75	84.3	32000	42200	51400	59000	74200	88500	100300	98200
M14	2	115	43700	57500	70200	805000	101200	120800	136900	-
M16	2	157	59700	78500	95800	109900	138200	164900	186800	182900
M18	2.5	192	73000	96000	121000	138200	176600	203500	230400	-
M20	2.5	245	93100	122500	154400	176400	225400	259700	294000	285400
M22	2.5	303	115100	151500	190900	218200	278800	321200	363600	-
M24	3	353	134100	176500	222400	254200	324800	374200	423600	411200
M27	3	459	174400	229500	289200	348800	452100	486500	550800	534700
M30	3.5	561	213200	280500	353400	426400	552600	594700	673200	653600
M33	3.5	694	263700	34700	437200	527400	683600	735600	832800	-
M36	4	817	310500	408500	514700	620900	804700	866000	980400	951800
M39	4	976	370900	488000	614900	741800	961400	1035000	1171000	-

Reference ISO 898.2:2022 and AS 1252.1:2016

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CARBON STEEL

METRIC HEX NUTS

DIAMETER	PITCH (mm)	STRESS AREA (mm ²)	STRESS UNDER PROOF LOAD (MPa)							
			THIN NUTS STYLE 0		REGULAR NUTS STYLE 1					
			CLASS 04	CLASS 05	CLASS 5	CLASS 6	CLASS 8	CLASS 10	CLASS 12	K0
M5	0.8	14.2	380	500	585	680	860	1040	1150	-
M6	1	20.1	380	500	585	680	860	1040	1150	-
M7	1	28.9	380	500	585	680	860	1040	1150	-
M8	1.25	36.6	380	500	605	705	885	1040	1180	-
M10	1.5	58	380	500	605	705	885	1040	1180	-
M12	1.75	84.3	380	500	610	710	895	1050	1195	1165
M14	2	115	380	500	610	710	895	1050	1195	-
M16	2	157	380	500	610	710	895	1050	1195	1165
M18	2.5	192	380	500	640	740	965	1070	1205	-
M20	2.5	245	380	500	640	740	965	1070	1205	1165
M22	2.5	303	380	500	640	740	965	1070	1205	-
M24	3	353	380	500	640	740	965	1070	1205	1165
M27	3	459	380	500	660	760	985	1096	1220	1165
M30	3.5	561	380	500	660	760	985	1096	1220	1165
M33	3.5	694	380	500	660	760	985	1096	1220	-
M36	4	817	380	500	660	760	985	1096	1220	1165
M39	4	976	380	500	660	760	985	1096	1220	-

Reference ISO 898.2:2022 and AS 1252.1:2016