

鋼製のボルト・小ねじの機械的性質 (JIS B 1051-1991 抜粋)

付表5 おねじ部品の保証荷重(メートル細目ねじの場合)

ねじの呼び mm	有効断面積 As mm ²	おねじ部品の強度区分									
		3.6	4.6	4.8	5.6	5.8	6.8	8.8	9.8	10.9	12.9
保証荷重 N(kgf)											
M 8 × 1	39.2	7060 {720}	8820 {899}	12200 {1240}	11000 {1120}	14900 {1520}	17200 {1750}	22700 {2310}	25500 {2600}	32500 {3310}	38000 {3870}
M10 × 1	64.5	11600 {1180}	14500 {1480}	20000 {2040}	18100 {1850}	24500 {2500}	28400 {2900}	37400 {3810}	41900 {4270}	53500 {5460}	62700 {6390}
M10 × 1.25	61.2	11000 {1120}	13800 {1410}	19000 {1940}	17100 {1740}	28300 {2380}	26900 {2740}	35500 {3620}	39800 {4060}	50800 {5180}	59400 {6060}
M12 × 1.25	92.1	16600 {1690}	20700 {2110}	28600 {2920}	25800 {2630}	35000 {3570}	40500 {4130}	53400 {5450}	59900 {6110}	76400 {7790}	89300 {9110}
M12 × 1.5	88.1	15900 {1620}	19800 {2020}	27300 {2780}	24700 {2520}	33500 {3420}	38800 {3960}	51100 {5210}	57300 {5840}	73100 {7450}	85500 {8720}
M14 × 1.5	125	22500 {2290}	28100 {2870}	38800 {3960}	35000 {3570}	47500 {4840}	55000 {5610}	72500 {7390}	81200 {8280}	104000 {10600}	121000 {12300}
M16 × 1.5	167	30100 {3070}	37600 {3830}	51800 {5280}	46800 {4770}	63500 {6480}	73500 {7490}	96900 {9880}	109000 {11100}	139000 {14200}	162000 {16500}
M18 × 1.5	216	38900 {3970}	48600 {4960}	67000 {6830}	60500 {6170}	82100 {8370}	95000 {9690}	130000 {13300}	—	179000 {18300}	210000 {21400}
M20 × 1.5	272	49000 {5000}	61200 {6240}	84300 {8600}	76200 {7770}	103000 {10500}	120000 {12200}	163000 {16600}	—	226000 {23000}	264000 {26900}
M22 × 1.5	333	59900 {6110}	74900 {7640}	103000 {10500}	93200 {9500}	126000 {12800}	146000 {14900}	200000 {20400}	—	276000 {28100}	323000 {32900}
M24 × 2	384	69100 {7050}	86400 {8810}	119000 {12100}	108000 {11000}	146000 {14900}	169000 {17200}	230000 {23500}	—	319000 {32500}	372000 {37900}
M27 × 2	496	89300 {9110}	112000 {11400}	154000 {15700}	139000 {14200}	188000 {19200}	218000 {22200}	298000 {30400}	—	412000 {42000}	481000 {49000}
M30 × 2	621	112000 {11400}	140000 {14300}	192000 {19600}	174000 {17700}	236000 {24100}	273000 {27800}	373000 {38000}	—	515000 {52500}	602000 {61400}
M33 × 2	761	137000 {14000}	171000 {17400}	236000 {24100}	213000 {21700}	289000 {29500}	335000 {34200}	457000 {46600}	—	632000 {64400}	738000 {75300}
M36 × 3	865	156000 {15900}	195000 {19900}	268000 {27300}	242000 {24700}	329000 {33500}	381000 {38900}	519000 {52900}	—	718000 {73200}	839000 {85500}
M39 × 3	1030	185000 {18900}	232000 {23700}	319000 {32500}	288000 {29400}	391000 {39900}	453000 {46200}	618000 {63000}	—	855000 {87200}	999000 {102000}

〈備考〉 表中の網かけ()したねじの呼びに対する保証荷重は、ISO 898-1:1988の規定にないものである。