

MECHANICAL PROPERTIES (DIN 934)

Mechanical Properties		Property Class					
		4	5	6	8	10	12
Proof load stress S_p	N/mm²	400	500	600	800	1000	1200
Vickers hardness HV 5	max.	302	302	302	302	353	353
Brinell hardness HB 30	max.	290	290	290	290	335	335
Rockwell hardness HRC	max.	30	30	30	30	36	36
Widening		See subclause 6.4.					

PROOF LOAD (DIN 267-10)

HOT-DIP GALVANIZED NUT WITH OVERSIZE THREAD

Thread size	Pitch, P	Stress area, As min, in mm ²	Property class bolt/nut			
			4.6/4	5.6/5	8.8/8	10.9/10
			Minimum failure load of bolt or proof load for nut, (As min • Rm), in N			
M6	1.00	16.4	6 560	8 200	13 100	17 100
M8	1.25	31.3	12 500	15 700	25 000	32 600
M10	1.50	50.9	20 400	25 500	40 700	52 900
M12	1.75	75.1	30 000	37 600	60 100	78 100
M14	2.00	104	41 600	52 000	83 200	108 000
M16	2.00	144	57 600	72 000	115 000	150 000
M18	2.50	177	70 800	88 500	147 000	184 000
M20	2.50	227	90 800	114 000	188 000	236 000
M22	2.50	284	114 000	142 000	236 000	295 000
M24	3.00	329	132 000	165 000	273 000	342 000
M27	3.00	433	173 000	216 000	359 000	450 000
M30	3.50	530	212 000	265 000	440 000	551 000
M33	3.50	659	264 000	330 000	547 000	685 000
M36	4.00	777	311 000	389 000	645 000	808 000