



PROPERTIES OF STAINLESS STEEL AISI 304 (A2)

BOLT SIZE	PITCH	STRESS AREA MM2	BOLT/NUT AISI 304 CLASS 70 OR EN 1.4301					BOLT/NUT AISI 304 CLASS 80 OR EN 1.4301				
			PROOF STRESS N/MM2	PROOF LOAD KN	TORQUE* N-m	TENSILE STRESS N/MM2	ELONGATION# %	PROOF STRESS N/MM2	PROOF LOAD KN	TORQUE* N-m	TENSILE STRESS N/MM2	ELONGATION# %
M6	1	20.1	450	9.0	7.3	700.0	45.0	600	12.1	9.7	800.0	45.0
M8	1.25	36.6	450	16.5	17.7	700.0	45.0	600	22.0	23.6	800.0	45.0
M10	1.5	58.8	450	26.5	35.5	700.0	45.0	600	35.3	47.4	800.0	45.0
M12	1.75	84.3	450	37.9	61.1	700.0	45.0	600	50.6	81.5	800.0	45.0
M14	2.0	115.0	450	51.8	97.3	700.0	45.0	600	69.0	129.7	800.0	45.0
M16	2.0	157.0	450	70.7	151.8	700.0	45.0	600	94.2	202.3	800.0	45.0
M18	2.5	192.0	450	86.4	208.8	700.0	45.0	600	115.2	278.4	800.0	45.0
M20	2.5	245.0	450	110.3	296.0	700.0	45.0	600	147.0	394.7	800.0	45.0
M22	2.5	303.0	450	136.4	402.7	700.0	45.0	600	181.8	536.9	800.0	45.0
M24	3.0	353.0	450	158.9	511.8	700.0	45.0	600	211.8	682.4	800.0	45.0
M27	3.0	459.0	450	206.6	748.7	700.0	45.0	600	275.4	998.3	800.0	45.0
M30	3.5	561.0	450	252.5	1,017	700.0	45.0	600	336.6	1,356	800.0	45.0
M33	3.5	694.0	450	312.3	1,384	700.0	45.0	600	416.4	1,845	800.0	45.0
M36	4.0	817.0	450	367.7	1,777	700.0	45.0	600	490.2	2,369	800.0	45.0
M39	4.0	976.0	450	439.2	2,300	700.0	45.0	600	585.6	3,066	800.0	45.0
M42	4.5	1,120.0										
M45	4.5	1,310.0										
M48	5.0	1,470.0										
M52	5.0	1,760.0										
M56	5.5	2,030.0										
M60	5.5	2,360.0										
M64	6.0	2,680.0										
M68	6.0	3,060.0										
M72	6.0	3,460.0										
DIMENSIONS	NORMAL HEX					NORMAL HEX						
MARKINGS	'RS' 'A2-70'					'RS' 'A2-80'						
CARBON	-0.07					-0.07						
MANAGENESE	-2.0					-2.0						
SULPHUR	-0.03					-0.03						
SILICON	-1.0					-1.0						
CHROMIUM	18.0-20.0					18.0-20.0						
MOLYDENUM	-					-						
NICKLE	8.0-10.5					8.0-10.5						
VANADIUM												
BORON												
PHOSPHOROUS	-0.045					-0.045						
MATERIAL	AISI 304					AISI 304						

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

*If carbon is < 0.03 SS304L

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* Torque value based on 75% of proof load and finish as recieved steel