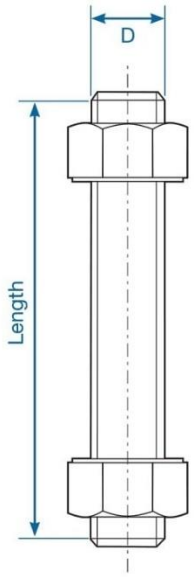
STUDBOLT ONP
OMIDAN PITCH

OMIDAN PITCH®

OMIDAN PITCH



QUALITY ASSURED

FULL THREAD STUDS

OUR STUD BOLT LENGTHS MEASURE FIRST THREAD TO FIRST THREAD.
ENSURING THE CORRECT AMOUNT OF LEAD THREADS ARE STILL VISIBLE ONCE INSTALLED.
THIS LENGTH IS CALCULATED BETWEEN CHAMFERED ENDS, A GUARANTEED SIGN OF QUALITY & CARE

IMPERIAL & METRIC THREAD PITCH

OMIDAN PITCH

Imperial (TPI) Threads Per Inch						Metric Thread Pitch		
Size	UNC	UN8	UNF	BSW	BSF	Size	Coarse	Fine
1/8"	40	-	44	40	-	M3	0.5	0.35
	32	-	36	-	-	M4	0.7	0.50
3/16"	24	-	32	24	32	M5	0.8	0.50
1/4"	20	-	28	20	26	M6	1	0.75
5/16"	18	-	24	18	22	M8	1.25	1
3/8"	16	-	24	16	20	M10	1.5	1.25
1/2"	13	-	20	14	18	M12	1.75	1.5
9/16"	12	-	18	12	16	M14	2	1.5
5/8"	11	-	18	11	14	M16	2	1.5
	-	-	-	-	-	M18	2.5	1.5
3/4"	10	-	16	10	12	M20	2.5	1.5
7/8"	9	-	14	9	11	M22	2.5	1.5
1"	8	8	12 (14)	8	10	M24	3	2
1 1/8"	7	8	12	7	9	M27	3	2
1 1/4"	7	8	12	7	9	M30	3.5	2
1 3/8"	6	8	12	6	8	M33	3.5	2
1 1/2"	6	8	12	6	8	M36	4	3
1 5/8"	-	8	-	5	8	M39	4	3
	-	-	-	-	-	M42	4.5	-
1 3/4"	5	8	-	5	7	M45	4.5	-
1 7/8"		8	-	-	-	M48	5	-
2"	4.5	8	-	4.5	7	M52	5	-
2 1/4"	4.5	8	-	4	6	M56	5.5	-
	-	-	-	-	-	M60	5.5	-
2 1/2"	1	8	-	4	6	M64	6	-
2 3/4"	4	8	-	3.5	6	M72	6	-
3"	4	8	-	3.5	5	M80	6	-
3 1/4"	4	8	-	3.25	5	M-	-	-
3 1/2"	4	8	-	3.25	4.5	M90	6	-
3 3/4"	4	8	-	3	4.5	M-	-	-
4"	4	8	-	3	4.5	M100	6	-

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021-22871502-3

OMIDAN PITCH

1/2" UNC
B7 / 2H Studbolt

ASTM B7 A193/A193M
2H A194/A194M

Product No.	Size	Length (mm)	Length (inch)	Weight (kg) Stud Only	Weight (kg) Stud+2xNut
6B7SBNU?12050	1/2"	50	2"	0.04	0.10
6B7SBNU?12060	1/2"	60	2 1/4"	0.05	0.11
6B7SBNU?12065	1/2"	65	2 1/2"	0.05	0.11
6B7SBNU?12070	1/2"	70	2 3/4"	0.06	0.12
6B7SBNU?12075	1/2"	75	3"	0.06	0.12
6B7SBNU?12080	1/2"	80	3 1/4"	0.06	0.12
6B7SBNU?12090	1/2"	90	3 1/2"	0.07	0.13
6B7SBNU?12095	1/2"	95	3 3/4"	0.08	0.14
6B7SBNU?12100	1/2"	100	4"	0.08	0.14
6B7SBNU?12110	1/2"	110	4 1/4"	0.09	0.15
6B7SBNU?12115	1/2"	115	4 1/2"	0.09	0.15
6B7SBNU?12120	1/2"	120	4 3/4"	0.10	0.16
6B7SBNU?12125	1/2"	125	5"	0.10	0.16
6B7SBNU?12130	1/2"	130	5 1/4"	0.10	0.16
6B7SBNU?12140	1/2"	140	5 1/2"	0.11	0.17
6B7SBNU?12145	1/2"	145	5 3/4"	0.12	0.18
6B7SBNU?12150	1/2"	150	6"	0.12	0.18
6B7SBNU?12160	1/2"	160	6 1/4"	0.13	0.19
6B7SBNU?12165	1/2"	165	6 1/2"	0.13	0.19
6B7SBNU?12170	1/2"	170	6 3/4"	0.14	0.20
6B7SBNU?12180	1/2"	180	7"	0.14	0.20
6B7SBNU?12185	1/2"	185	7 1/4"	0.15	0.21
6B7SBNU?12190	1/2"	190	7 1/2"	0.15	0.21
6B7SBNU?12195	1/2"	195	7 3/4"	0.16	0.22
6B7SBNU?12200	1/2"	200	8"	0.16	0.22
6B7SBNU?12210	1/2"	210	8 1/4"	0.17	0.23
6B7SBNU?12215	1/2"	215	8 1/2"	0.17	0.23
6B7SBNU?12220	1/2"	220	8 3/4"	0.18	0.24
6B7SBNU?12230	1/2"	230	9"	0.18	0.24
6B7SBNU?12235	1/2"	235	9 1/4"	0.19	0.25
6B7SBNU?12240	1/2"	240	9 1/2"	0.19	0.25
6B7SBNU?12250	1/2"	250	9 3/4"	0.20	0.26
6B7SBNU?12255	1/2"	255	10"	0.20	0.26
6B7SBNU?12260	1/2"	260	10 1/4"	0.21	0.27
6B7SBNU?12265	1/2"	265	10 1/2"	0.21	0.27
6B7SBNU?12275	1/2"	275	10 3/4"	0.22	0.28
6B7SBNU?12280	1/2"	280	11"	0.22	0.28
6B7SBNU?12285	1/2"	285	11 1/4"	0.23	0.29
6B7SBNU?12290	1/2"	290	11 1/2"	0.23	0.29
6B7SBNU?12300	1/2"	300	11 3/4"	0.24	0.30
6B7SBNU?12305	1/2"	305	12"	0.24	0.30

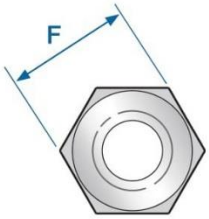
1/2" UNC *continued on page 8*

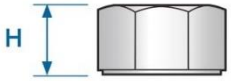
DIMENSIONS

ASTM A194 / A194M

OMIDAN PITCH

GRADE 2H, 4, 7, 8, 8M





Thread diameter to fit:	Dimension F Min. (inch")	Max. (inch")	Dimension H Min. (inch")	Max. (inch")	Nut Wgt (kg)
1/4"	0.488	0.500	0.218	0.250	0.01
5/16"	0.546	0.562	0.280	0.314	0.01
3/8"	0.669	0.688	0.341	0.377	0.01
7/16"	0.728	0.750	0.403	0.441	0.02
1/2"	0.850	0.875	0.464	0.504	0.03
9/16"	0.909	0.938	0.526	0.568	0.04
5/8"	1.031	1.062	0.587	0.631	0.05
3/4"	1.212	1.250	0.710	0.758	0.09
7/8"	1.394	1.438	0.833	0.885	0.13
1"	1.575	1.625	0.956	1.012	0.19
1 1/8"	1.756	1.812	1.079	1.139	0.26
1 1/4"	1.938	2.000	1.187	1.251	0.37
1 3/8"	2.119	2.188	1.310	1.378	0.48
1 1/2"	2.300	2.375	1.433	1.505	0.58
1 5/8"	2.481	2.562	1.556	1.632	0.78
1 3/4"	2.662	2.750	1.679	1.759	0.96
1 7/8"	2.844	2.938	1.802	1.866	1.16
2"	3.025	3.125	1.925	2.013	1.40
2 1/4"	3.388	3.500	2.155	2.251	1.90
2 1/2"	3.750	3.875	2.401	2.505	2.56
2 3/4"	4.112	4.250	2.647	2.750	3.35
3"	4.475	4.625	2.893	3.013	4.32

GRADE SYMBOL MARKING OF HEAVY HEX NUTS

These grades shall be uniformly reheated to proper austenitizing temperatures and be liquid quenched and tempered under substantially uniform conditions.

The H and M indicate heat-treated nuts.

An underline as a marking requirement for grades 2HM and 7M has been removed but is permitted.

*Manufactured in Accordance with 6.6 Nuts shall subsequently be carbide-solution treated by heating them for a sufficient time at a temperature to dissolve chromium carbides followed by cooling at a rate sufficient to prevent reprecipitation of the carbides.

Grade & Type	Hot- forged or cold- punched	Machined from Bar Stock	see *
2H	2H	2HB	-
2HM	2HM	2HMB	-
3	3	3B	-
4	4	4B	-
6	6	6	-
7	7	7B	-
7M	7M	7M	-
8	8	8B	-
8C	8C	8CB	-
8M	8M	8MB	8MA
8T	8T	8TB	-

Gr 2H
UNC

CARBON STEEL
ASTM A194/A194M

Product No.	Size	Thread (TPI)	Nut Wgt (kg)	Hardness (HRC)	Stress Area (inch²)	Proof Load (lbf)
6NHIU?006	1/4"	20	0.01	24 -35	0.0316	5570
6NHIU?008	5/16"	18	0.01	24-35	0.0524	9170
6NHIU?010	3/8"	16	0.01	24-35	0.0774	13560
6NHIU?011	7/16"	14	0.02	24-35	0.1063	18600
6NHIU?012	1/2"	13	0.03	24-35	0.1419	24830
6NHIU?014	9/16"	12	0.04	24-35	0.1820	31850
6NHIU?016	5/8"	11	0.05	24-35	0.2260	39550
6NHIU?020	3/4"	10	0.09	24-35	0.3340	58450
6NHIU?022	7/8"	9	0.13	24-35	0.4620	80850
6NHIU?025	1"	8	0.19	24-35	0.6060	106000
6NHIU?028	1 1/8"	7	0.26	24-35	0.7900	138200
6NHIU?032	1 1/4"	7	0.37	24-35	1.0000	175000
6NHIU?038	1 1/2"	6	0.58	24-35	1.4920	261100
6NHIU?045	1 3/4"	5	0.96	35 max	2.0800	364000
6NHIU?050	2"	4.5	1.40	35 max	2.7700	484800

? = finish/coating codes; see page 4

Based on proof stress of 175,000 psi

Gr 2H
UN8

CARBON STEEL
ASTM A194/A194M

Product No.	Size	Thread (TPI)	Nut Wgt (kg)	Hardness (HRC)	Stress Area (inch²)	Proof Load (lbf)
6NHIU?028	1 1/8"	8	0.26	24-35	0.790	138200
6NHIU?032	1 1/4"	8	0.37	24-35	1.000	175000
6NHIU?035	1 3/8"	8	0.48	24-35	1.233	215800
6NHIU?038	1 1/2"	8	0.58	24-35	1.492	261100
6NHIU?040	1 5/8"	8	0.78	35 max	1.780	311500
6NHIU?045	1 3/4"	8	0.96	35 max	2.080	364000
6NHIU?048	1 7/8"	8	1.16	35 max	2.410	421800
6NHIU?050	2"	8	1.40	35 max	2.770	484800
6NHIU?057	2 1/4"	8	1.90	35 max	3.560	623000
6NHIU?065	2 1/2"	8	2.56	35 max	4.440	777000
6NHIU?072	2 3/4"	8	3.35	35 max	5.430	950250
6NHIU?075	3"	8	4.32	35 max	-	na
6NHIU?090	3 1/2"	8	6.94	35 max	-	na
6NHIU?100	4"	8	9.91	35 max	-	na

? = finish/coating codes; see page 4

Based on proof stress of 175,000 psi

HEAVY HEX NUTS

GRADE 2H & 2HM

ASTM A194, A194M

OMIDAN PITCH

Gr 2H
Metric

CARBON STEEL ASTM A194/A194M (AF=DIN934, HEIGHT=DIAMETER)

Product No.	Size	Thread (Pitch)	Nut Wgt (kg)	Hardness (HRC)	Stress Area (mm2)	Proof Load (kN)
6NHIC?006	M6	1.00	0.01	24 -35	20.1	29.2
6NHIC?008	M8	1.25	0.01	24 -35	36.6	44.1
6NHIC?010	M10	1.50	0.01	24 -35	58.0	69.9
6NHIC?012	M12	1.75	0.02	24 -35	84.3	101.6
6NHIC?014	M14	2.00	0.03	24 -35	115.0	138.6
6NHIC?016	M16	2.00	0.04	24 -35	157.0	189.2
6NHIC?018	M18	2.50	0.06	24 -35	-	-
6NHIC?020	M20	2.50	0.09	24 -35	245.0	295.2
6NHIC?022	M22	2.50	0.10	24 -35	303.0	365.1
6NHIC?024	M24	3.00	0.14	24 -35	353.0	425.4
6NHIC?027	M27	3.00	0.21	24 -35	459.0	553.4
6NHIC?030	M30	3.50	0.28	24 -35	561.0	676.0
6NHIC?033	M33	3.50	0.36	24 -35	-	-
6NHIC?036	M36	4.00	0.49	24 -35	817.0	984.5
6NHIC?039	M39	4.00	0.63	35 max	-	-
6NHIC?042	M42	4.50	0.81	35 max	1120.0	1349.6
6NHIC?048	M48	5.00	1.22	35 max	1470.0	1771.4
6NHIC?052	M52	5.00	1.52	35 max	-	-
6NHIC?056	M56	5.50	1.77	35 max	2030.0	2446.2
6NHIC?064	M64	6.00	2.48	35 max	2680.0	3229.4
6NHIC?072	M72	6.00	4.32	35 max	3460.0	4169.3

? = finish/coating codes; see page 4

Based on proof stress of 1205 MPa

Gr 2HM
UNC & UN8

CARBON STEEL ASTM A194/A194M

Product No.	Size	Thread (TPI)	Nut Wgt (kg)	Hardness (HRC)	Stress Area ($inch^2$)	Proof Load (lbf)
6NH2HMU?010	3/8"	16	0.01	84-99	0.0774	11620
6NH2HMU?012	1/2"	13	0.03	84-99	0.1419	21280
6NH2HMU?016	5/8"	11	0.05	84-99	0.2260	33900
6NH2HMU?020	3/4"	10	0.09	84-99	0.3340	50100
6NH2HMU?022	7/8"	9	0.13	84-99	0.4620	69300
6NH2HMU?025	1"	8	0.19	84-99	0.6060	90900
6NH2HMU?028	1 1/8"	8	0.26	84-99	0.7900	118500
6NH2HMU?032	1 1/4"	8	0.37	84-99	1.0000	150000
6NH2HMU?035	1 3/8"	8	0.48	84-99	1.2330	185000
6NH2HMU?038	1 1/2"	8	0.58	84-99	1.4920	223800
6NH2HMU?040	1 5/8"	8	0.78	84-99	1.7800	267000
6NH2HMU?045	1 3/4"	8	0.96	84-99	20.0800	312000
6NH2HMU?048	1 7/8"	8	1.16	84-99	2.4100	361500
6NH2HMU?050	2"	8	1.40	84-99	2.7700	415500

? = finish/coating codes; see page 4

Based on proof stress of 150,000 psi

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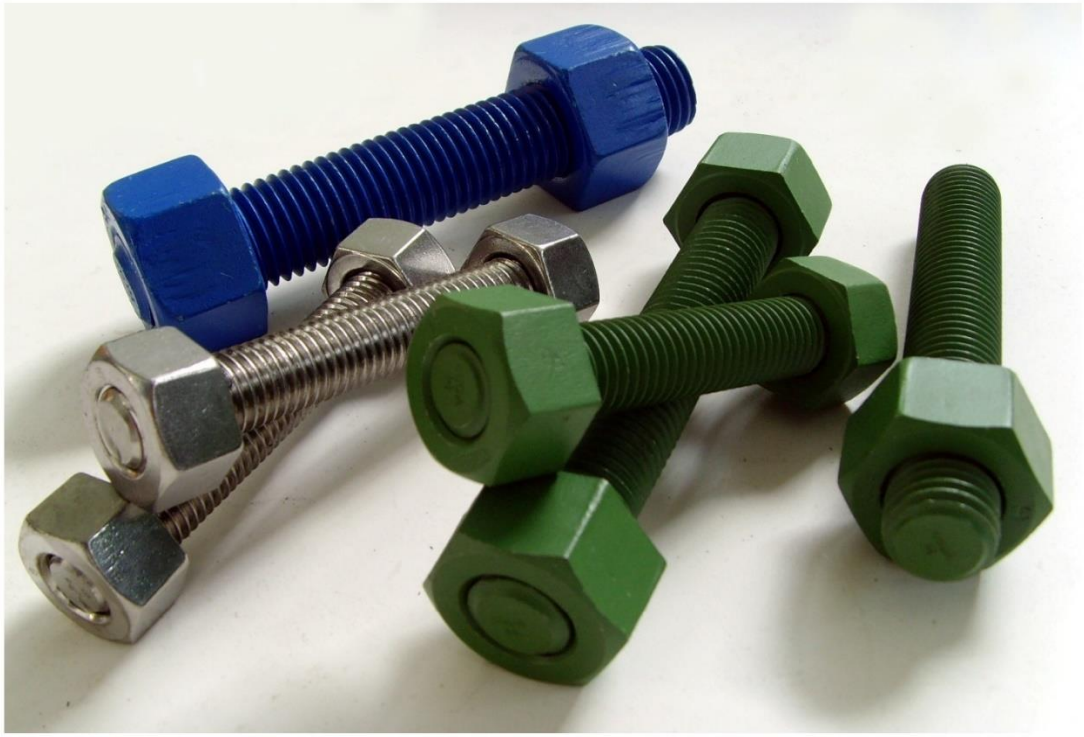

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STUDBOLT FASTENERS HIGH TENSILE FASTENERS FOR OIL, GAS & PETROCHEMICAL

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