



CLASS 8 HEX NUTS
METRIC - PLAIN
 AS/NZS 1112 - ISO 4032



CLASS 10 HEX NUTS
METRIC - PLAIN (FINE PITCH)
 AS/NZS 1112 - ISO 4032

Size	Box	Weight KG/100	Code
M5-0.80	100	0.12	881020
M6-1.00	100	0.23	881030
M8-1.25	100	0.49	881040
M10-1.50	100	0.76	881050
M12-1.75	100	1.45	881060
M14-2.00	100	2.53	881070
M16-2.00	50	3.43	881080
M18-2.50	50	4.63	881090
M20-2.50	50	6.35	881100
M24-3.00	25	10.78	881110
M30-3.50	25	24.60	881130
M36-4.00	25	42.51	881140

Size	Box	Weight KG/100	Code
M8-1.00	100	0.50	316008
M10-1.25	100	0.73	316010
M12-1.25	100	1.73	316011
M12-1.50	100	1.73	316012
M14-1.50	100	2.63	316014
M16-1.50	50	3.31	316016
M20-1.50	50	5.40	316020
M24-2.00	25	12.84	316024
M30-2.00	25	22.23	316026
M36-3.00	25	39.01	316028



CLASS 8 HEX NUTS
METRIC - Z/P CLEAR (TRIVALENT)
 AS/NZS 1112 - ISO 4032



GRADE 8 HEX NUTS
IMPERIAL - PLAIN
 ASME/ANSI B18.2.2 - 1987

Size	Box	Weight KG/100	Code
M5-0.80	100	0.27	868100
M6-1.00	100	0.34	868110
M8-1.25	100	0.50	868120
M10-1.50	100	0.73	868130
M12-1.75	100	1.72	868140
M14-2.00	100	2.63	868150
M16-2.00	50	3.31	868160
M20-2.50	50	5.40	868170
M24-3.00	25	12.84	868180

Size	Box	Weight KG/100	Code
1/4-20	100	0.33	326050/308050
5/16-18	100	0.50	326052/308052
3/8-16	100	0.73	326054/308054
7/16-14	100	1.29	326056/308056
1/2-13	100	1.70	326058/308058
9/16-12	100	2.64	326060/308060
5/8-11	50	3.32	326062/308062
3/4-10	50	5.40	326064/308064
7/8-9	25	8.62	326066/308066
1-8	25	12.84	326068/308068
1/4-28	100	0.33	326078/308078
5/16-24	100	0.50	326080/308080
3/8-24	100	0.73	326082/308082
7/16-20	100	1.29	326084/308084
1/2-20	100	1.70	326086/308086
9/16-18	100	2.64	326088/308088
5/8-18	50	3.32	326090/308090
3/4-16	50	5.40	326092/308092
7/8-14	25	8.62	326094/308094
1-14	25	12.84	326096/308096
1 1/8-7	10	18.28	308098
1 1/4-7	10	24.63	308099
1 3/8-6	10	33.11	308105
1 1/2-6	10	42.78	308101
1 3/4-5	5	90.72	308111
2-4 1/2	5	99.79	308115
1 1/8-12	10	18.28	308121
1 1/4-12	10	24.63	308123
1 3/8-12	10	33.12	308107
1 1/2-12	10	42.78	308109



CLASS 10 HEX NUTS
METRIC - Z/P CLEAR (TRIVALENT)
 AS/NZS 1112 - ISO 4032

Size	Box	Weight KG/100	Code
M5-0.80	100	0.27	309004
M6-1.00	100	0.34	309006
M8-1.25	100	0.50	309008
M10-1.50	100	0.73	309010
M12-1.75	100	1.73	309012
M14-2.00	100	2.63	309014
M16-2.00	50	3.31	309016
M18-2.50	50	4.63	309018
M20-2.50	50	5.40	309020
M24-3.00	25	12.84	309024



GRADE 8 HEX NUTS
IMPERIAL - Z/P YELLOW (DICHROMATE)
 ASME/ANSI B18.2.2 - 1987



CLASS 10 HEX NUTS
METRIC - PLAIN
 AS/NZS 1112 - ISO 4032

Size	Box	Weight KG/100	Code
M30-3.50	25	22.23	316030
M36-4.00	25	39.01	316036

Size	Box	Weight KG/100	Code
1/4-20	100	0.33	306050
5/16-18	100	0.50	306052
3/8-16	100	0.73	306054





GRADE 8 HEX NUTS
IMPERIAL - Z/P YELLOW (DICHROMATE)
 ASME/ANSI B18.2.2 - 1987



GRADE C CONELOCK NUTS
IMPERIAL - Z/P CLEAR (TRIVALENT) & WAXED
 AISI C1037, IFI 100/107-2002 CLASS 2B
 THREAD - PREVAILING TORQUE
 HARDNESS RC C24-32

Size	Box	Weight KG/100	Code
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Grade 8 Hex Nuts Imperial Z/P Yellow... Continues

7/16-14	100	1.29	306056
1/2-13	100	1.70	306058
9/16-12	100	2.65	306060
5/8-11	50	3.33	306062
3/4-10	50	5.40	306064
7/8-9	25	8.62	306066
1-8	25	12.84	306068
1/4-28	100	0.33	306078
5/16-24	100	0.50	306080
3/8-24	100	0.73	306082
7/16-20	100	1.29	306084
1/2-20	100	1.70	306086
9/16-18	100	2.65	306088
5/8-18	50	3.33	306090
3/4-16	50	5.40	306092
7/8-14	25	8.62	306094
1-14	25	12.84	306096

Size	Box	Weight KG/100	Code
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Grade C Cone Lock Nuts Imperial Z/P Clear & Waxed ... Continues

3/8-24	100	0.66	825160
7/16-14	100	1.15	825170
7/16-20	100	1.15	825180
1/2-13	100	1.57	825190
1/2-20	100	1.57	825200
9/16-12	50	2.44	825210
9/16-18	50	2.44	825220
5/8-11	50	3.21	825230
5/8-18	50	3.21	825240
3/4-10	50	5.19	825250
3/4-16	50	5.19	825260
7/8-9	25	9.41	825270
7/8-14	25	9.41	825280
1-8	25	11.84	825290
1-14	25	11.84	825300



GRADE 8 HEX NUTS
IMPERIAL - Z/P CLEAR (TRIVALENT)
 ASME/ANSI B18.2.2 - 1987



CLASS 10 CONELOCK NUTS
METRIC - Z/P CLEAR (TRIVALENT) & WAXED
 DIN 980V, DIN 267 PREVAILING TORQUE
 HARDNESS HV30 272-353

Size	Box	Weight KG/100	Code
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1/4-20	100	0.33	328050
5/16-18	100	0.50	328052
3/8-16	100	0.73	328054
7/16-14	100	1.29	328056
1/2-13	100	1.70	328058
9/16-12	100	2.65	328060
5/8-11	50	3.33	328062
3/4-10	50	5.40	328064
7/8-9	25	8.62	328066
1-8	25	12.84	328068
1/4-28	100	0.33	328078
5/16-24	100	0.50	328080
3/8-24	100	0.73	328082
7/16-20	100	1.29	328084
1/2-20	100	1.70	328086
9/16-18	100	2.65	328088
5/8-18	50	3.33	328090
3/4-16	50	5.40	328092
7/8-14	25	8.62	328094
1-14	25	12.84	328096

Size	Box	Weight KG/100	Code
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M6-1.00	100	0.31	826110
M8-1.25	100	0.44	826130
M10-1.50	100	0.66	826150
M12-1.75	100	1.14	826170
M14-2.00	100	1.57	826190
M16-2.00	50	3.79	826210
M20-2.50	50	6.99	826230
M24-3.00	25	11.90	826250
M30-3.50	10	23.66	826290
M36-4.00	10	40.61	826360



GRADE C CONELOCK NUTS
IMPERIAL - Z/P CLEAR (TRIVALENT) & WAXED
 AISI C1037, IFI 100/107-2002 CLASS 2B
 THREAD - PREVAILING TORQUE
 HARDNESS RC C24-32



CLASS 6
NYLON INSERT LOCKNUTS
METRIC - Z/P CLEAR (TRIVALENT)
 DIN 985

Size	Box	Weight KG/100	Code
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1/4-20	100	0.31	825110
1/4-28	100	0.31	825120
5/16-18	100	0.45	825130
5/16-24	100	0.45	825140
3/8-16	100	0.66	825150

Size	Box	Weight KG/100	Code
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M3-0.50	100	0.07	304008
M4-0.70	100	0.07	304010
M5-0.80	100	0.12	304020
M6-1.00	100	0.23	304030
M8-1.25	100	0.49	304040
M10-1.50	100	1.10	304050
M12-1.75	50	1.45	304060
M14-2.00	50	2.53	304070
M16-2.00	50	3.43	304080
M18-2.50	25	4.63	304090
M20-2.50	25	6.35	304100
M24-3.00	25	10.78	304110
M27-3.00	25	22.14	304120
M30-3.50	25	24.60	304130
M36-4.00	10	42.52	304140
M42-4.50	10	79.84	304150





**CLASS 8
NYLON INSERT LOCKNUTS**
METRIC - Z/P CLEAR (TRIVALENT)
DIN 985

Size	Box	Weight KG/100	Code
M3-0.50	100	0.07	812008
M4-0.70	100	0.07	812010
M5-0.80	100	0.12	812020
M6-1.00	100	0.23	812030
M8-1.25	100	0.49	812040
M10-1.50	100	1.10	812050
M12-1.75	50	1.45	812060
M14-2.00	50	2.53	812070
M16-2.00	50	3.43	812080
M18-2.50	25	4.63	812090
M20-2.50	25	6.35	812100
M22-2.50	25	7.40	812105
M24-3.00	25	10.78	812110
M27-3.00	25	22.14	812120
M30-3.50	25	24.60	812130
M36-4.00	10	42.52	812140
M42-4.50	10	79.84	812150



**GRADE 10
NYLON INSERT LOCKNUTS**
METRIC - Z/P CLEAR (TRIVALENT)
DIN 985

Size	Box	Weight KG/100	Code
M6-1.00	100	0.21	312050
M8-1.25	100	0.46	312100
M10-1.00	100	1.04	312150
M10-1.25	100	1.04	312200
M10-1.50	100	1.04	312250
M12-1.25	50	1.58	312300
M12-1.50	50	1.58	312350
M12-1.75	50	1.58	312400
M14-1.50	50	2.40	312450
M14-2.00	50	2.40	312500
M16-1.50	50	3.15	312550
M16-2.00	50	3.15	312600
M18-2.50	25	4.67	312650
M20-2.50	25	6.12	312700
M24-3.00	25	10.23	312750
M30-3.50	25	23.20	312800



**GRADE 2
NYLON INSERT LOCKNUTS**
IMPERIAL - Z/P CLEAR (TRIVALENT)
IFI 100/107

Size	Series	Box	Weight KG/100	Code
2/56	NM	100	0.06	305002
3/48	NM	100	0.07	305003
4/40	NM	100	0.07	305005
5/40	NM	100	0.07	305007
6/32	NM	100	0.12	305009
8/32	NM	100	0.19	305011
10/24	NM	100	0.23	305013
12/24	NM	100	0.42	305015
6/40	NM	100	0.12	305021
8/36	NM	100	0.19	305023



**GRADE 2
NYLON INSERT LOCKNUTS**
IMPERIAL - Z/P CLEAR (TRIVALENT)
IFI 100/107

Size	Series	Box	Weight KG/100	Code
Grade 2 Nylon Insert Locknuts Imperial - Z/P Clear... Continues				
10/32	NM	100	0.23	305025
3/48	NTM	100	0.07	305097
4/40	NTM	100	0.06	305099
5/40	NTM	100	0.06	305101
6/32	NTM	100	0.12	305103
8/32	NTM	100	0.19	305105
10/24	NTM	100	0.23	305107
10/32	NTM	100	0.23	305115
1/4-20	NE	100	0.41	305164
5/16-18	NE	100	0.55	305166
3/8-16	NE	100	0.82	305168
7/16-14	NE	100	1.04	305170
1/2-13	NE	100	1.95	305172
9/16-12	NE	100	3.22	305174
5/8-11	NE	50	3.77	305176
1/4-28	NE	100	0.41	305178
5/16-24	NE	100	0.55	305180
3/8-24	NE	100	0.82	305182
7/16-20	NE	100	1.05	305184
1/2-20	NE	100	1.95	305186
9/16-18	NE	100	3.22	305188
5/8-18	NE	50	3.77	305190
3/4-10	NE	50	5.45	305195
7/8-9	NE	25	8.17	305197
1-8	NE	25	12.88	305199
3/4-16	NE	50	5.44	305201
7/8-14	NE	25	8.17	305203
1-14	NE	25	12.89	305205
1 1/8-7	NE	10	31.30	305460
1 1/4-7	NE	10	41.73	305462
1 3/8-6	NE	10	54.44	305464
1 1/2-6	NE	10	68.04	305466
1 1/8-12	NE	10	31.30	305468
1 1/4-12	NE	10	41.73	305470
1 3/8-12	NE	10	54.43	305472
1 1/2-12	NE	10	68.04	305474
1/4-20	NTE	100	0.23	305277
5/16-18	NTE	100	0.54	305279
3/8-16	NTE	100	0.82	305281
7/16-14	NTE	100	1.05	305283
1/2-13	NTE	100	1.95	305285
9/16-12	NTE	100	3.22	305287
5/8-11	NTE	50	3.77	305289
1/4-28	NTE	100	0.41	305291
5/16-24	NTE	100	0.35	305293
3/8-24	NTE	100	0.82	305295
7/16-20	NTE	100	1.05	305297
1/2-20	NTE	100	1.95	305299
9/16-18	NTE	100	3.22	305301
5/8-18	NTE	50	3.77	305303
3/4-10	NTE	50	5.45	305308
7/8-9	NTE	25	8.17	305310
1-8	NTE	25	12.88	305312
3/4-16	NTE	50	5.45	305314
7/8-14	NTE	25	8.17	305316
1-14	NTE	25	12.88	305318
1 1/8-7	NTE	10	8.62	305476
1 1/4-7	NTE	10	12.25	305478
1 3/8-6	NTE	10	14.97	305480
1 1/2-6	NTE	10	19.51	305482
1 1/8-12	NTE	10	8.62	305484





**GRADE 2
NYLON INSERT LOCKNUTS
IMPERIAL - Z/P CLEAR (TRIVALENT)**
IFI 100/107



**GRADE C
NYLON INSERT LOCKNUTS
IMPERIAL - PHOSPHATE & OIL**
IFI 100/107 CLASS 2B THREAD
HARDNESS RC C25-34

Size	Series	Box	Weight KG/100	Code
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Grade 2 Nylon Insert Locknuts Imperial - Z/P Clear... Continues

1 1/4-12	NTE	10	12.25	305486
1 3/8-12	NTE	10	14.97	305488
1 1/2-12	NTE	10	19.51	305490
1/4-20	NU	100	0.41	305394
5/16-18	NU	100	0.55	305396
3/8-16	NU	100	0.82	305398
7/16-14	NU	100	1.04	305400
1/2-13	NU	100	1.95	305402
9/16-12	NU	100	3.22	305405
5/8-11	NU	50	3.77	305407
3/4-10	NU	50	5.44	305409
7/8-9	NU	25	15.42	305411
1-8	NU	25	21.78	305413
1 1/8-7	NU	10	31.30	305494
1 1/4-7	NU	10	41.73	305496
1 3/8-6	NU	10	54.43	305498
1 1/2-6	NU	10	68.04	305500
1 3/4-5	NU	5	108.87	305502
2-4 1/2	NU	5	140.62	305504
1/4-20	NTU	100	0.41	305437
5/16-18	NTU	100	0.55	305439
3/8-16	NTU	100	0.82	305441
7/16-14	NTU	100	1.05	305443
1/2-13	NTU	100	1.95	305446
9/16-12	NTU	100	3.22	305448
5/8-11	NTU	50	3.77	305450
3/4-10	NTU	50	5.45	305452
7/8-9	NTU	25	15.43	305454
1-8	NTU	25	21.78	305456
1 1/8-7	NTU	10	19.51	305508
1 1/4-7	NTU	10	25.86	305510
1 3/8-6	NTU	10	31.75	305512
1 1/2-6	NTU	10	43.10	305514
1 3/4-5	NTU	5	63.51	305516
2-4 1/2	NTU	5	90.72	305518
2 1/4-4 1/2	NTU	5	90.72	305520
1/2-12	BSW	100	1.95	305901

- NM - Numbered Machine Screw Sizes
- NTM - Numbered Thin Machine Screw Sizes
- NE - Regular Hex Standard Height
- NTE - Regular Hex Thin Height
- NU - Heavy Hex Standard Height
- NTU - Heavy Hex Thin Height
- BSW - BSW Thread

Size	Box	Weight KG/100	Code
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1/4-20	100	0.41	828110
1/4-28	100	0.41	828120
5/16-18	100	0.54	828130
5/16-24	100	0.54	828140
3/8-16	100	0.82	828150
3/8-24	100	0.82	828160
7/16-14	100	1.04	828170
7/16-20	100	1.04	828180
1/2-13	100	1.95	828190
1/2-20	100	1.95	828200
9/16-12	100	3.22	828210
9/16-18	100	3.22	828220
5/8-11	50	3.77	828230
5/8-18	50	3.77	828240
3/4-10	50	5.44	828250
3/4-16	50	5.44	828260
7/8-9	25	8.62	828270
7/8-14	25	8.62	828280
1-8	25	12.25	828290
1-14	25	12.25	828300
1 1/8-7	10	18.60	828310
1 1/8-12	10	18.60	828370
1 1/4-7	10	26.31	828320
1 1/4-12	10	26.31	828380
1 3/8-6	10	34.93	828330
1 3/8-12	10	34.93	828390
1 1/2-6	10	45.36	828340
1 1/2-12	10	45.36	828400



**GRADE C
NYLON INSERT LOCKNUTS
IMPERIAL - Z/P CLEAR (TRIVALENT)**
IFI 100/107 CLASS 2B THREAD
HARDNESS RC C25-34

Size	Box	Weight KG/100	Code
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1/4-20	100	0.41	829110
1/4-28	100	0.41	829120
5/16-18	100	0.54	829130
5/16-24	100	0.54	829140
3/8-16	100	0.82	829150
3/8-24	100	0.82	829160
7/16-14	100	1.04	829170
7/16-20	100	1.04	829180
1/2-13	100	1.95	829190
1/2-20	100	1.95	829200
9/16-12	100	3.22	829210
9/16-18	100	3.22	829220
5/8-11	50	3.77	829230
5/8-18	50	3.77	829240
3/4-10	50	5.60	829250
3/4-16	50	5.60	829260
7/8-9	25	8.62	829270
7/8-14	25	8.62	829280
1-8	25	12.25	829290
1-14	25	12.25	829300

NUTS



METRIC HARDENED FLAT WASHERS

Z/P CLEAR (TRIVALENT)

ASME B18.22M-1981 NARROW
HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
M5	100	0.05	371040
M6	100	0.10	371060
M8	100	0.28	371080
M10	100	0.30	371100



METRIC HARDENED FLAT WASHERS

Z/P CLEAR (TRIVALENT)

ASTM F436M - 1995
HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
M12	100	1.31	371120/373021
M14	100	1.58	371140/373023
M16	50	2.03	371160/373025
M18	50	2.67	371180/373026
M20	50	3.16	371200/373027
M24	25	4.43	371240/373029



METRIC HARDENED FLAT WASHERS PLAIN

ASTM F436M - 1995
HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
M30	25	5.25	372300/374033
M36	25	7.74	372360/374035



METRIC HARDENED SPRING WASHERS

Z/P CLEAR (TRIVALENT)

DIN 127B
HARDNESS RC 44-51

Size	Box	Weight KG/100	Code
M5	100	0.05	361040
M6	100	0.10	361060
M8	100	0.17	361080
M10	100	0.27	361100
M12	100	0.59	361120
M14	100	0.60	361140
M16	50	1.09	361160
M18	50	1.09	361180
M20	50	1.82	361200
M24	25	3.99	361240





IMPERIAL SAE HARDENED FLAT WASHERS PLAIN

ASME B18.22.1 - 1965
MIL CARB HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
1/4	100	0.21	375050
5/16	100	0.23	375100
3/8	100	0.33	375150
7/16	100	0.41	375200
1/2	100	0.83	375250
9/16	100	1.06	375300
5/8	50	1.74	375350
3/4	50	2.02	375400
7/8	50	3.03	375450
1	50	4.06	375500
1 1/8	25	5.04	382550/375550
1 1/4	25	6.26	382600/375600
1 3/8	10	7.85	382650/375650
1 1/2	10	9.48	382700/375700
1 3/4	10	15.11	382750/375750
2	10	18.15	382800/375800



IMPERIAL SAE HARDENED FLAT WASHERS Z/P YELLOW (DICHROMATE)

ASME B18.22.1 - 1965
MIL CARB HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
1/4	100	0.21	381050/383050
5/16	100	0.23	381100/383100
3/8	100	0.33	381150/383150
7/16	100	0.41	381200/383200
1/2	100	0.83	381250/383250
9/16	100	1.06	381300/383300
5/8	50	1.74	381350/383350
3/4	50	2.02	381400/383400
7/8	50	3.03	381450/383450
1	50	4.06	381500/383500



IMPERIAL SAE HARDENED FLAT WASHERS Z/P CLEAR (TRIVALENT)

ASME B18.22.1 - 1965
MIL CARB HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
1/4	100	0.21	376050
5/16	100	0.23	376100
3/8	100	0.33	376150
7/16	100	0.41	376200
1/2	100	0.83	376250
9/16	100	1.06	376300
5/8	50	1.74	376350
3/4	50	2.02	376400
7/8	50	3.03	376450
1	50	4.06	376500



**IMPERIAL USS (OVERSIZE) HARDENED
FLAT WASHERS
Z/P YELLOW (DICHROMATE)**

ASME B18.22.1 - 1965
MIL CARB HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
1/4	100	0.29	351050/353050
5/16	100	0.45	351100/353100
3/8	100	0.59	351150/353150
7/16	100	0.95	351200/353200
1/2	100	1.72	351250/353250
9/16	100	2.04	351300/353300
5/8	50	3.49	351350/353350
3/4	50	4.54	351400/353400
7/8	50	6.26	351450/353450
1	50	7.67	351500/353500



**IMPERIAL USS (OVERSIZE) HARDENED
FLAT WASHERS
PLAIN**

ASME B18.21.1 - 1965
MIL CARB HARDNESS RC 38-45

Size	Box	Weight KG/100	Code
1 1/8	25	8.98	352550/354550
1 1/4	25	10.62	352600/354600
1 3/8	10	12.29	352650/354650
1 1/2	10	14.34	352700/354700



**IMPERIAL SAE HARDENED
SPRING WASHERS
PLAIN**

ASME B18.21.1 - 1999
HARDNESS RC 38-46

Size	Box	Weight KG/100	Code
1/4	100	0.10	358050
5/16	100	0.17	358100
3/8	100	0.27	358150
7/16	100	0.41	358200
1/2	100	0.59	358250
9/16	100	0.80	358300
5/8	50	1.09	358350
3/4	50	1.81	358400
7/8	50	2.72	358450
1	50	3.99	358500
1 1/8	25	5.44	342550
1 1/4	25	7.62	342600
1 3/8	10	9.53	342650
1 1/2	10	12.79	342700





IMPERIAL SAE HARDENED SPRING WASHERS

Z/P YELLOW (DICHROMATE)

ASME B18.21.1 - 1999

HARDNESS RC 38-46

Size	Box	Weight KG/100	Code
1/4	100	0.10	341050/340050
5/16	100	0.17	341100/340100
3/8	100	0.27	341150/340150
7/16	100	0.41	341200/340200
1/2	100	0.59	341250/340250
9/16	100	0.80	341300/340300
5/8	50	1.09	341350/340350
3/4	50	1.81	341400/340400
7/8	50	2.72	341450/340450
1	50	3.99	341500/340500



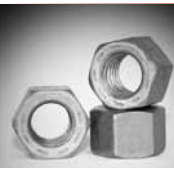
IMPERIAL SAE HARDENED SPRING WASHERS

Z/P CLEAR (TRIVALENT)

SME B18.21.1 - 1999

HARDNESS RC 38-46

Size	Box	Weight KG/100	Code
1/4	100	0.10	359050
5/16	100	0.17	359100
3/8	100	0.27	359150
7/16	100	0.41	359200
1/2	100	0.59	359250
9/16	100	0.80	359300
5/8	50	1.09	359350
3/4	50	1.81	359400
7/8	50	2.72	359450
1	50	3.99	359500



IMPERIAL L9® HEX NUTS

Z/P YELLOW DICHROMATE CAD & WAXED



IMPERIAL L9® TENSION FLAT WASHERS

Z/P YELLOW DICHROMATE CAD & WAXED

Size	Box	Weight KG/100	Code
1/4-20	100	0.40	444002
5/16-18	100	0.56	444004
3/8-16	100	0.80	444006
7/16-14	50	1.51	444008
1/2-13	50	1.94	444010
9/16-12	25	3.07	444012
5/8-11	25	3.81	444014
3/4-10	20	6.58	444016
7/8-9	15	10.43	444018
1-8	10	15.47	444020
1 1/8-7	8	22.54	444104
1 1/4-7	8	30.67	444110
1 1/2-6	5	48.00	444116
1/4-28	100	0.40	444022
5/16-24	100	0.56	444024
3/8-24	100	0.80	444026
7/16-20	50	1.51	444028
1/2-20	50	1.94	444030
9/16-18	25	3.07	444032
5/8-18	25	3.81	444034
3/4-16	20	6.58	444036
7/8-14	15	10.43	444038
1-14	10	15.47	444040
1 1/8-12	8	22.55	444128
1 1/4-12	8	30.66	444134
1 1/2-12	5	48.00	444140

Size	Box	Weight KG/100	Code
1/4	100	0.24	448002
5/16	100	0.28	448004
3/8	100	0.39	448006
7/16	50	0.72	448008
1/2	50	1.01	448010
9/16	50	1.31	448012
5/8	50	1.49	448014
3/4	40	2.27	448016
7/8	30	3.08	448018
1	20	3.79	448020
1 1/8	20	4.88	448022
1 1/4	12	7.26	448024
1 1/2	10	11.00	448026



IMPERIAL L9® STOVER LOCKNUTS

Z/P YELLOW DICHROMATE CAD & WAXED

Size	Box	Weight KG/100	Code
1/4-20	100	0.35	446002
5/16-18	100	0.48	446004
3/8-16	100	0.70	446006
7/16-14	50	1.22	446008
1/2-13	50	1.58	446010
9/16-12	25	2.54	446012
5/8-11	25	3.10	446014
3/4-10	20	5.31	446016
7/8-9	15	8.59	446018
1-8	10	13.16	446020
1 1/8-7	8	19.19	446022
1 1/4-7	6	25.67	446024
1 1/2-6	5	41.66	446026
1/4-28	100	0.35	446052
5/16-24	100	0.48	446054
3/8-24	100	0.70	446056
7/16-20	50	1.22	446058
1/2-20	50	1.58	446060
9/16-18	25	2.54	446062
5/8-18	25	3.10	446064
3/4-16	20	5.31	446066
7/8-14	15	8.59	446068
1-14	10	13.16	446070
1 1/8-12	8	19.19	446072
1 1/4-12	6	25.67	446074
1 1/2-12	5	41.66	446078



Imperial Hex Nuts



• GRADE 8 FINISHED HEX NUTS

Family Code	Description
308	Imperial Grade 8 Finished Hex Nut Plain
306	Imperial Grade 8 Finished Hex Nut Zinc-Yellow CR+6
328	Imperial Grade 8 Finished Hex Nut Zinc-Clear CR+3

• GRADE 5 FINISHED HEX NUTS

Family Code	Description
849	Imperial Grade 5 Finished Hex Nut Plain
848	Imperial Grade 5 Finished Hex Nut Zinc-Clear CR+3

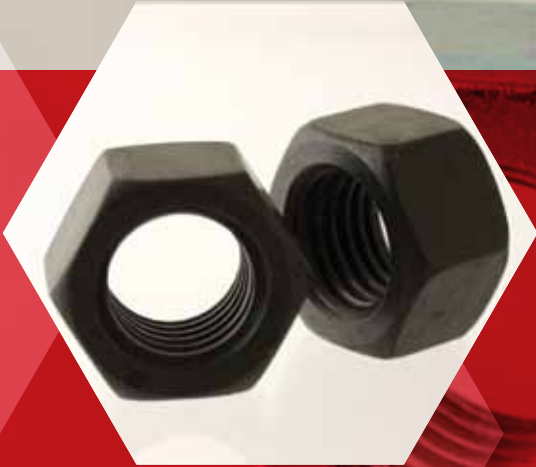
PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
1/4"	2"



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Metric Hex Nuts



Family Code	Description
309	Metric Class 10 ISO 4032 Hex Nut Zinc-Clear CR+3
316	Metric Class 10 Hex Nut Plain
868	Metric Class 8 Hex Nut Zinc-Clear CR+3
881	Metric Class 8 Hex Nut Plain

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M3	M36



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Hi-Tensile Locknuts



• CONE LOCKNUTS

Family Code	Description
826	Metric Class 10 Hex Cone Locknut Zinc Clear & Wax CR+3 DIN 980V
825	Imperial Grade C Hex Cone Locknut Zinc Clear & Wax CR+3

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M36

Min. Diameter	Max Diameter
1/4"	1"

• NYLON INSERT LOCKNUTS

Family Code	Description
312	Metric Class 10 Nylon Insert Locknut Zinc-Clear CR+3
828	Imperial Grade C Nylon Insert Locknut Phosphate & Oil
829	Imperial Grade C Nylon Insert Locknut Zinc-Clear CR+3

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M30

Min. Diameter	Max Diameter
1/4"	1 1/2"

Thru-Hardened Washers

• IMPERIAL HARDENED WASHERS

Family Code	Description
375	Imperial SAE Thru-Hardened Flat Washers Plain
383	Imperial SAE Thru-Hardened Flat Washer Zinc-Yellow CR+6
353	Imperial USS Thru-Hardened Flat Washer Zinc-Yellow CR+6 - Large OD
340	Imperial Regular Spring Washer Thru-Hardened Zinc-Yellow CR+6
359	Imperial Regular Spring Washer Thru-Hardened Zinc-Clear CR+3
013	Imperial Hi-Collar Spring Washer Plain

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
#4	2"

• METRIC HARDENED WASHERS

Family Code	Description
361	Metric Thru-Hardened Spring Washer Zinc-Clear CR+3
371/373	Metric Thru-Hardened Flat Washer Zinc Clear-CR+3
374	Metric Thru-Hardened Flat Washer Plain

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M5	M36



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Metric Nuts



• METRIC CLASS 5 HEX NUTS

Family Code	Description
553	Metric Class 5 Hex Nut Zinc AS 1112
554	Metric Class 5 Hex Nut HDG AS 1112

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M36

• METRIC HEX COUPLING NUTS

Family Code	Description
784	Metric Hex Coupling Nut HDG
785	Metric Hex Coupling Nut Zinc Yellow

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M20



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NEW!



Metric Mild Steel Washers



• METRIC MILD STEEL FLAT WASHERS

Family Code	Description
366	Metric Flat Washer Mild Steel Zinc CR+3 AS1237
367	Metric Flat Washer Mild Steel HDG AS1237

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M36

• METRIC SQUARE WASHERS

Family Code	Description
788	Metric Square Washers HDG
789	Metric Square Washer Zinc Yellow

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M12	M24



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NEW!

Mild Steel Locknuts / Flange Nuts



Family Code	Description
305	Imperial Mild Steel Nylon Insert Locknut Zinc-Clear CR+3

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
#2	2 1/4"

Family Code	Description
555	Metric Serrated Flange Locknut Zinc-Yellow CR+3 DIN 6923

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M5	M12

Family Code	Description
812	Metric Mild Steel Nylon Insert Locknut Zinc-Clear CR+3

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M3	M42

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NEW!

Stainless Nuts

• STAINLESS HEX NUTS

Family Code	Description
762	Imperial Stainless Steel 304 Hex Nuts Passivated
763	Imperial Stainless Steel 316 Hex Nuts Passivated
834	Metric Hex Nut Stainless Steel A2-70 (304)DIN 934
560	Metric Hex Nut Stainless Steel A4-70 (316) DIN 934

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
1/4"	1"
M3	M36

• STAINLESS WING NUTS

Family Code	Description
567	Metric Stainless Steel 316 Wing Nut

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M4	M12

• STAINLESS COUPLING NUTS

Family Code	Description
568	Metric Stainless Steel 316 Coupling Nut

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M12

• STAINLESS 316 HALF NUTS

Family Code	Description
562	Metric Stainless Steel 316 Half Nut

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M6	M24

• STAINLESS ACORN NUTS

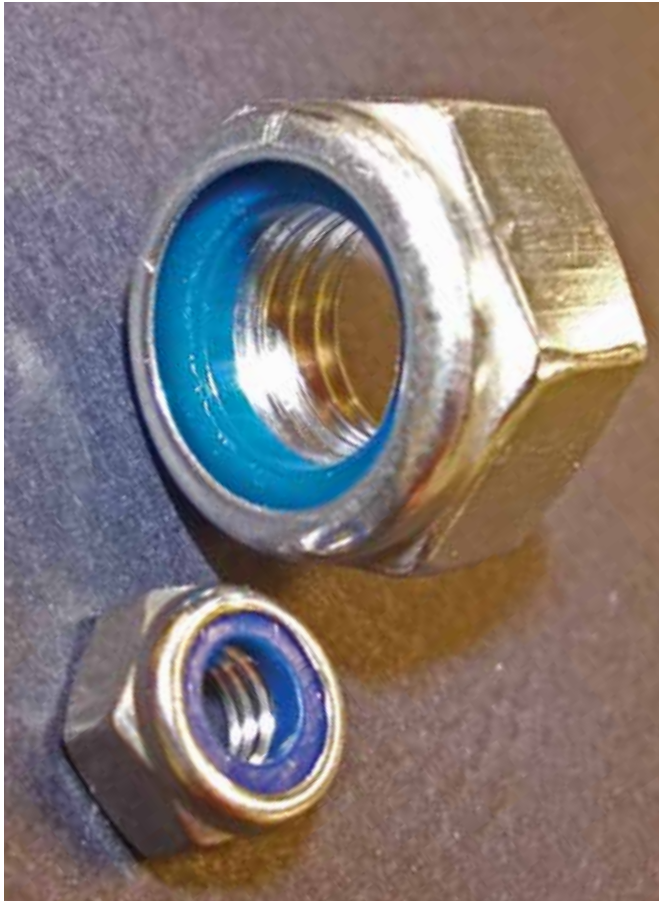
Family Code	Description
569	Imperial Stainless Steel 304 Acorn Nut
566	Metric Stainless Steel 316 Acorn Nut
570	Metric Stainless Steel 304 Acorn Nut

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
1/4"	1/2"
M3	M24



Stainless Nylon Insert Locknuts



Family Code	Description
310	Imperial Nylon Insert Locknuts Stainless Steel A2-70 (304)
561	Metric Nylon Insert Locknuts Stainless Steel A2-70 (304) DIN 985
563	Metric Nylon Insert Locknuts Stainless Steel A4-70 (316) DIN 985

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
#4	1'

Min. Diameter	Max Diameter
M3	M30



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Imperial Stainless Washers



• IMPERIAL 304 / 316 FLAT WASHERS

Family Code	Description
757	Imperial Stainless 304 Flat Washer
758	Imperial Stainless 316 Flat Washer

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
1/8"	1 1/2"

• IMPERIAL 316 SPRING WASHERS

Family Code	Description
755	Imperial Spring Lock Washers Stainless Steel 316 Passivated

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
1/4"	1"



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NEW!



Metric Stainless Washers



• METRIC 304 / 316 FLAT WASHERS

Family Code	Description
363	Metric Flat Washer A2-70 (304) BBI Standard
369	Metric Flat Washer A2-70 (304) DIN 125A
364	Metric Flat Washer A4-70 (316) BBI Standard

• METRIC 304 / 316 SPRING WASHERS

Family Code	Description
836	Metric Spring Washer A2-70 (304)
365	Metric Spring Washer DIN127B A4-70 (316)

PRODUCT SIZE / RANGE

Min. Diameter	Max Diameter
M3	M36



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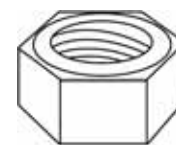
HEXAGON STANDARD NUTS

UNC ANSI B18.2.2



Diameter (inches)	Product Code	Std. Pack
8g	NHHC4#800N2	200
10g	NHHC40500N2	100
1/4	NHHC40600N2	
5/16	NHHC40800N2	
3/8	NHHC41000N2	
1/2	NHHC41200N2	
5/8	NHHC41600N2	50
3/4	NHHC42000N2	
7/8	NHHC42200N2	25
1	NHHC42400N2	
1.1/8	NHHC42700N2	20
1.1/4	NHHC43000N2	10

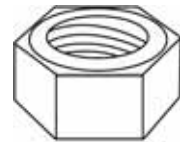
BSW BS 450 up to 3/16" BS 1083 1/4" & above



Diameter (inches)	Product Code	Std. Pack
1/8	NHHW40300N2	200
5/32	NHHW40400N2	
3/16	NHHW40500N2	
1/2	NHHW41200N2	100

HEXAGON STANDARD NUTS

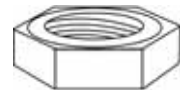
METRIC COARSE DIN 934



Diameter (mm)	Product Code	Std. Pack
M2	NHHM40200N2	200
M2.5	NHHM45200N2	
M3	NHHM40300N2	
M4	NHHM40400N2	
M5	NHHM40500N2	
M6	NHHM40600N2	100
M8	NHHM40800N2	
M10	NHHM41000N2	
M12	NHHM41200N2	
M14	NHHM41400N2	50
M16	NHHM41600N2	
M20	NHHM42000N2	
M24	NHHM42400N2	25
M30	NHHM43000N2	10

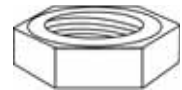
HEXAGON LOCK (HALF) NUTS

UNC ANSI B18.2.2



Diameter (inches)	Product Code	Std. Pack
5/16	NLKC40800N2	100
3/8	NLKC41000N2	
1/2	NLKC41200N2	50

UNC ANSI B18.2.2



Diameter (mm)	Product Code	Std. Pack
M5	NLKM40500N2	100
M6	NLKM40600N2	
M8	NLKM40800N2	
M10	NLKM41000N2	
M12	NLKM41200N2	50
M16	NLKM41600N2	
M20	NLKM42000N2	25



HEXAGON NYLON INSERT LOCKNUTS

UNC NM - NE SERIES



Diameter (inches)	Product Code	Std. Pack
10g	NNYC40500N2	100
1/4	NNYC40600N2	
5/16	NNYC40800N2	
3/8	NNYC41000N2	
1/2	NNYC41200N2	
5/8	NNYC41600N2	50
3/4	NNYC42000N2	25
1	NNYC42400N2	

BSW



Diameter (inches)	Product Code	Std. Pack
1/2	NNYW41200N2	100

METRIC COARSE DIN 985

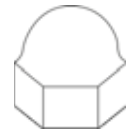


Diameter (mm)	Product Code	Std. Pack
M2	NNYM40200N2	100
M2.5	NNYM45200N2	
M3	NNYM40300N2	
M4	NNYM40400N2	
M5	NNYM40500N2	
M6	NNYM40600N2	
M8	NNYM40800N2	
M10	NNYM41000N2	
M12	NNYM41200N2	
M16	NNYM41600N2	50
M20	NNYM42000N2	25



ACORN (DOME / CAP) NUTS

UNC



Diameter (inches)	Product Code	Std. Pack
10g	NACC40500N2	100
1/4	NACC40600N2	
5/16	NACC40800N2	
3/8	NACC41000N2	
7/16	NACC41100N2	50
1/2	NACC41200N2	
5/8	NACC41600N2	

METRIC COARSE DIN 1587



Diameter (mm)	Product Code	Std. Pack
M3	NACM40300N2	100
M4	NACM40400N2	
M5	NACM40500N2	
M6	NACM40600N2	
M8	NACM40800N2	
M10	NACM41000N2	
M12	NACM41200N2	50
M16	NACM41600N2	
M20	NACM42000N2	25

WING NUTS

UNC



Diameter (inches)	Product Code	Std. Pack
1/4	NWIC40600N2	100
5/16	NWIC40800N2	
3/8	NWIC41000N2	

METRIC COARSE

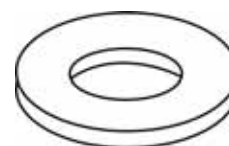


Diameter (mm)	Product Code	Std. Pack
M6	NWIM40600N2	100
M8	NWIM40800N2	
M10	NWIM41000N2	
M12	NWIM41200N2	50



FLAT ROUND WASHERS

IMPERIAL

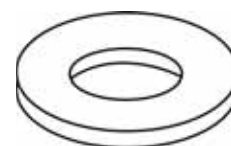


Bolt Diameter (Inches)	O.D. (inches)	Thickness	Product Code	Std Pack
1/8	5/16	22g	WFRI403MOW2	200
1/8	3/8	20g	WFRI403HOW2	
5/32	3/8	20g	WFRI404MOW2	
5/32	7/16	20g	WFRI404HOW2	
3/16	7/16	20g	WFRI405LOW2	
3/16	1/2	20g	WFRI405MOW2	100
3/16	3/4	18g	WFRI405HOW2	
3/16	1	16g	WFRI405HOW2	
3/16	1.1/4	16g	WFRI405XOW2	
1/4	1/2	20g	WFRI406EOW2	
1/4	9/16	18g	WFRI406LOW2	
1/4	5/8	18g	WFRI406MOW2	
1/4	3/4	18g	WFRI406HOW2	
1/4	1	16g	WFRI406XOW2	
1/4	1.1/4	16g	WFRI406VOW2	
5/16	5/8	18g	WFRI408LOW2	
5/16	3/4	18g	WFRI408MOW2	
5/16	1	16g	WFRI408HOW2	
5/16	1.1/4	16g	WFRI408XOW2	
3/8	3/4	18g	WFRI410LOW2	
3/8	1	16g	WFRI410MOW2	
3/8	1.1/4	16g	WFRI410HOW2	
3/8	1.1/2	14g	WFRI410XOW2	
1/2	1	16g	WFRI412LOW2	
1/2	1.1/4	14g	WFRI412MOW2	
1/2	2	14g	WFRI412HOW2	50
5/8	1.1/4	16g	WFRI416LOW2	100
5/8	1.1/2	14g	WFRI416MOW2	
3/4	1.1/2	14g	WFRI420LOW2	
3/4	1.7/8	14g	WFRI420MOW2	
7/8	1.5/8	14g	WFRI422MOW2	
7/8	2	14g	WFRI422LOW2	50
1	1.7/8	14g	WFRI424EOW2	
1	2	14g	WFRI424LOW2	
1	2.1/2	14g	WFRI424MOW2	

FLAT ROUND WASHERS



METRIC



Bolt Diameter (mm)	O.D. (mm)	Thickness (mm)	Product Code	Std Pack
M3	7	0.5	WFRM403MOW2	200
M4	9	0.8	WFRM404MOW2	
M5	10	0.8	WFRM405MOW2	
M6	12.5	1.2	WFRM406MOW2	100
M8	17	1.2	WFRM408MOW2	
M10	21	1.2	WFRM410MOW2	
M12	24	1.5	WFRM412MOW2	
M14	28	1.5	WFRM414MOW2	
M16	30	1.5	WFRM416MOW2	
M20	37	2	WFRM420MOW2	
M24	44	3	WFRM424MOW2	50
M30	56	3	WFRM430MOW2	

BREMICK STAINLESS STEEL GRADE 304

BREMICK



SPRING WASHERS

IMPERIAL SINGLE COIL ANSI B18.21.1 (MEDIUM SECTION)



Bolt Diameter (Inches)	O.D. (inches)	Thickness (inches)	Width (inches)	Product Code	Std Pack
1/8 5g	0.20	0.025	0.047	WSPI403MOW2	200
5/32	0.30	0.04	0.055	WSPI404MOW2	
3/16 10g	0.34	0.047	0.062	WSPI405MOW2	
1/4	0.49	0.062	0.109	WSPI406MOW2	100
5/16	0.591	0.078	0.125	WSPI408MOW2	
3/8	0.688	0.094	0.141	WSPI410MOW2	
1/2	0.879	0.125	0.171	WSPI412MOW2	
5/8	1.086	0.156	0.203	WSPI416MOW2	
3/4	1.279	0.188	0.234	WSPI420MOW2	

METRIC SINGLE COIL DIN 127 B



Bolt Diameter (Inches)	O.D. (inches)	Thickness (inches)	Width (inches)	Product Code	Std Pack
M2	4.5	0.5	0.9	WSPM402MOW2	200
M2.5	5.1	0.6	1	WSPM452MOW2	
M3	6.2	0.8	1.3	WSPM403MOW2	
M4	7.6	0.9	1.5	WSPM404MOW2	
M5	9.2	1.2	1.8	WSPM405MOW2	
M6	11.8	1.6	2.5	WSPM406MOW2	100
M8	14.8	2	3	WSPM408MOW2	
M10	18.1	2.2	3.5	WSPM410MOW2	
M12	21.1	2.5	4	WSPM412MOW2	
M16	27.1	3.5	5	WSPM416MOW2	
M20	33.6	4	6	WSPM420MOW2	



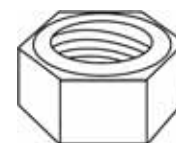
HEXAGON STANDARD NUTS

UNC ANSI B18.2.2



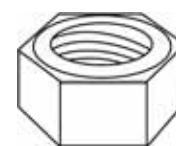
Diameter (inches)	Product Code	Std. Pack
10g	NHHC60500N2	200
1/4	NHHC60600N2	100
5/16	NHHC60800N2	
3/8	NHHC61000N2	
7/16	NHHC61100N2	
1/2	NHHC61200N2	
5/8	NHHC61600N2	50
3/4	NHHC62000N2	
7/8	NHHC62200N2	25
1	NHHC62400N2	
1.1/8	NHHC62700N2	20
1.1/4	NHHC63000N2	10
1.1/2	NHHC63600N2	5

BSW BS 450 up to 3/16" BS 1083 1/4" & above



Diameter (inches)	Product Code	Std. Pack
3/16	NHHW60500N2	200
1/2	NHHW61200N2	100

UNF ANSI B18.2.2

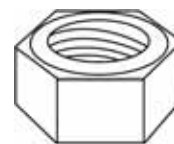


Diameter (inches)	Product Code	Std. Pack
1/4	NHHF60600N2	100
5/16	NHHF60800N2	
3/8	NHHF61000N2	
7/16	NHHF61100N2	
1/2	NHHF61200N2	
5/8	NHHF61600N2	25
3/4	NHHF62000N2	
7/8	NHHF62200N2	
1	NHHF62400N2	

HEXAGON COACH SCREWS



METRIC COARSE DIN 934



Diameter (mm)	Product Code	Std. Pack
M2	NHHM60200N2	200
M3	NHHM60300N2	
M4	NHHM60400N2	
M5	NHHM60500N2	
M6	NHHM60600N2	100
M8	NHHM60800N2	
M10	NHHM61000N2	
M12	NHHM61200N2	
M14	NHHM61400N2	50
M16	NHHM61600N2	
M18	NHHM61800N2	
M20	NHHM62000N2	
M22	NHHM62200N2	
M24	NHHM62400N2	25
M27	NHHM62700N2	
M30	NHHM63000N2	10
M33	NHHM63300N2	
M36	NHHM63600N2	5
M42	NHHM64200N2	
M48	NHHM64800N2	

HEXAGON LOCK (HALF) NUTS

UNC ANSI B18.2.2



Diameter (mm)	Product Code	Std. Pack
M6	NLKM60600N2	100
M8	NLKM60800N2	
M10	NLKM61000N2	
M12	NLKM61200N2	
M16	NLKM61600N2	
M20	NLKM62000N2	50
M24	NLKM62400N2	25
M30	NLKM63000N2	10

STAINLESS STEEL GRADE 316

BREMICK



HEXAGON NYLON INSERT LOCKNUTS

UNC NM - NE SERIES



Diameter (inches)	Product Code	Std. Pack
10g	NNYC60500N2	100
1/4	NNYC60600N2	
5/16	NNYC60800N2	
3/8	NNYC61000N2	
7/16	NNYC61100N2	
1/2	NNYC61200N2	
5/8	NNYC61600N2	50
3/4	NNYC62000N2	25
7/8	NNYC62200N2	
1	NNYC62400N2	
1.1/8	NNYC62700N2	20
1.1/4	NNYC63000N2	10
1.1/2	NNYC63600N2	5

BSW



Diameter (inches)	Product Code	Std. Pack	
1/2	NNYW61200N2	100	6,780.00

METRIC COARSE DIN 985



Diameter (mm)	Product Code	Std. Pack
M3	NNYM60300N2	100
M4	NNYM60400N2	
M5	NNYM60500N2	
M6	NNYM60600N2	
M8	NNYM60800N2	
M10	NNYM61000N2	
M12	NNYM61200N2	
M14	NNYM61400N2	50
M16	NNYM61600N2	
M20	NNYM62000N2	25
M24	NNYM62400N2	
M30	NNYM63000N2	10
M36	NNYM63600N2	5

ACORN (DOME / CAP) NUTS



METRIC COARSE DIN 1587



Diameter (mm)	Product Code	Std. Pack
M4	NACM60400N2	100
M5	NACM60500N2	
M6	NACM60600N2	
M8	NACM60800N2	
M10	NACM61000N2	50
M12	NACM61200N2	
M16	NACM61600N2	
M20	NACM62000N2	25
M24	NACM62400N2	

WING NUTS

UNC



Diameter (inches)	Product Code	Std. Pack
10g	NWIC60500N2	100
1/4	NWIC60600N2	
5/16	NWIC60800N2	
3/8	NWIC61000N2	
1/2	NWIC61200N2	50

METRIC



Diameter (inches)	Product Code	Std. Pack
M3	NWIM60300N2	100
M4	NWIM60400N2	
M5	NWIM60500N2	
M6	NWIM60600N2	
M8	NWIM60800N2	
M10	NWIM61000N2	
M12	NWIM61200N2	50
M16	NWIM61600N2	25

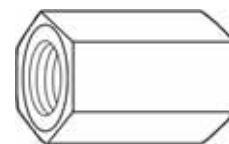
STAINLESS STEEL GRADE 316

BREMICK



HEXAGON COUPLING NUTS

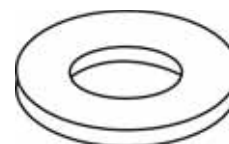
METRIC COURSE DIN 6334



Diameter (mm)	Product Code	Std. Pack
M6	NHCM60600N2	100
M8	NHCM60800N2	
M10	NHCM61000N2	
M12	NHCM61200N2	

FLAT ROUND WASHERS

IMPERIAL



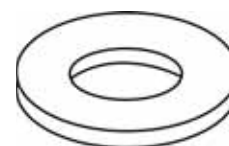
Bolt Diameter (Inches)	O.D. (inches)	Thickness	Product Code	Std Pack
3/16	7/16	20g	WFRI605E0W2	200
3/16	1/2	20g	WFRI605LOW2	100
3/16	3/4	18g	WFRI605M0W2	
3/16	1	16g	WFRI605H0W2	
3/16	1.1/4	16g	WFRI605X0W2	
1/4	1/2	20g	WFRI606X0W2	
1/4	9/16	18g	WFRI606LOW2	
1/4	5/8	18g	WFRI606M0W2	
1/4	3/4	18g	WFRI606H0W2	
1/4	1	16g	WFRI606S0W2	
1/4	1.1/4	16g	WFRI606V0W2	
5/16	5/8	18g	WFRI608LOW2	
5/16	3/4	18g	WFRI608M0W2	
5/16	1	16g	WFRI608H0W2	
5/16	1.1/4	16g	WFRI608X0W2	
3/8	3/4	18g	WFRI610LOW2	
3/8	1	16g	WFRI610M0W2	
3/8	1.1/4	16g	WFRI610H0W2	
3/8	1.1/2	14g	WFRI610X0W2	
7/16	1.1/8	16g	WFRI611M0W2	
1/2	1	16g	WFRI612LOW2	
1/2	1.1/4	14g	WFRI612M0W2	
1/2	2	14g	WFRI612H0W2	50

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ACORN (DOME / CAP) NUTS

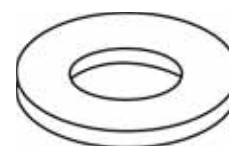


IMPERIAL (CONTINUED)



Bolt Diameter (Inches)	O.D. (inches)	Thickness	Product Code	Std Pack
9/16	1.1/4	14g	WFRI614MOW2	100
5/8	1.1/4	16g	WFRI616LOW2	
5/8	1.1/2	14g	WFRI616MOW2	
3/4	1.1/2	14g	WFRI620LOW2	
3/4	1.7/8	12g	WFRI620MOW2	
7/8	1.5/8	10g	WFRI622LOW2	50
7/8	2	12g	WFRI622MOW2	
1	1.7/8	14g	WFRI624LOW2	25
1	2.1/2	10g	WFRI624MOW2	
1.1/8	2.1/2	10g	WFRI627MOW2	20
1.1/4	2.3/4	10g	WFRI630MOW2	25
1.1/2	3.1/4	10g	WFRI636MOW2	10

METRIC



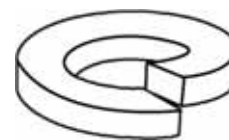
Bolt Diameter (mm)	O.D. (mm)	Thickness (mm)	Product Code	Std Pack
M3	7	0.5	WFRM603MOW2	200
M4	9	0.8	WFRM604MOW2	
M5	10	0.8	WFRM605MOW2	
M6	12.5	1.2	WFRM606MOW2	100
M8	17	1.2	WFRM608MOW2	
M10	21	1.2	WFRM610MOW2	
M12	24	1.5	WFRM612MOW2	
M14	28	1.5	WFRM614MOW2	
M16	30	1.5	WFRM616MOW2	
M20	37	2	WFRM620MOW2	
M24	44	3	WFRM624MOW2	50
M27	50	3	WFRM627MOW2	25
M30	56	3	WFRM630MOW2	
M33	60	3	WFRM633MOW2	20
M36	66	5	WFRM636MOW2	10

STAINLESS STEEL GRADE 316

BREMICK

SPRING WASHERS

IMPERIAL SINGLE COIL ANSI B18.21.1 (MEDIUM SECTION)



Bolt Diameter (Inches)	O.D. (inches)	Thickness (inches)	Width (inches)	Product Code	Std Pack
5/32	0.296	0.040	0.055	WSPI604MOW2	200
3/16	0.337	0.047	0.062	WSPI605MOW2	
1/4	0.493	0.062	0.109	WSPI606MOW2	100
5/16	0.591	0.078	0.125	WSPI608MOW2	
3/8	0.688	0.094	0.141	WSPI610MOW2	
7/16	0.784	0.109	0.156	WSPI611MOW2	
1/2	0.879	0.125	0.171	WSPI612MOW2	
5/8	1.086	0.156	0.203	WSPI616MOW2	
3/4	1.279	0.188	0.234	WSPI620MOW2	
7/8	1.474	0.219	0.266	WSPI622MOW2	50
1	1.672	0.250	0.297	WSPI624MOW2	
1.1/8	1.858	0.281	0.328	WSPI627MOW2	25

METRIC SINGLE COIL DIN 127B



Bolt Diameter (mm)	O.D. (mm)	Thickness (mm)	Width (mm)	Product Code	Std Pack
M2	4.5	0.5	0.9	WSPM602MOW2	200
M3	6.2	0.8	1.3	WSPM603MOW2	
M4	7.6	0.9	1.5	WSPM604MOW2	
M5	9.2	1.2	1.8	WSPM605MOW2	
M6	11.8	1.6	2.5	WSPM606MOW2	100
M8	14.8	2.0	3.0	WSPM608MOW2	
M10	18.1	2.2	3.5	WSPM610MOW2	
M12	21.1	2.5	4.0	WSPM612MOW2	
M14	24.1	3.0	4.5	WSPM614MOW2	
M16	27.1	3.5	5.0	WSPM616MOW2	
M20	33.6	4.0	6.0	WSPM620MOW2	
M24	40.0	5.0	7.0	WSPM624MOW2	50
M30	48.2	6.0	8.0	WSPM630MOW2	25
M36	58.2	6.0	10.0	WSPM636MOW2	



FLAT ROUND WASHERS

31

GALVANISED



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
1/4" - GALVANISED					
WASHER FLAT RND GAL 6mm (1/4)	Carton	500	9337357004360	1	WFRMG0600P6
5/16" - GALVANISED					
WASHER FLAT RND GAL 8mm (5/16)	Carton	500	9337357004377	1	WFRMG0800P6
3/8" - GALVANISED					
WASHER FLAT RND GAL 10mm (3/8)	Carton	500	9337357004384	1	WFRMG1000P6
1/2" - GALVANISED					
WASHER FLAT RND GAL 12mm (1/2)	Carton	200	9337357004391	1	WFRMG1200P6
5/8" - GALVANISED					
WASHER FLAT RND GAL 16mm (5/8)	Carton	200	9337357004407	1	WFRMG1600P6
3/4" - GALVANISED					
WASHER FLAT RND GAL 20mm (3/4)	Carton	150	9337357004414	1	WFRMG2000P6
1" - GALVANISED					
WASHER FLAT RND GAL 24mm (1")	Carton	25	9337357004421	1	WFRMG2400P6
30mm - GALVANISED					
WASHER FLAT RND GAL 30mm	Carton	25	9337357004438	1	WFRMG3000P6



ZINC PLATED

Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
1/4" - ZINC PLATED					
WASHER FLAT RND ZNC 6mm (1/4)	Carton	500	9337357004445	1	WFRMZ0600P6
5/16" - ZINC PLATED					
WASHER FLAT RND ZNC 8mm (5/16)	Carton	500	9337357004452	1	WFRMZ0800P6
3/8" - ZINC PLATED					
WASHER FLAT RND ZNC 10mm (3/8)	Carton	500	9337357004469	1	WFRMZ1000P6
1/2" - ZINC PLATED					
WASHER FLAT RND ZNC 12mm (1/2)	Carton	200	9337357004476	1	WFRMZ1200P6
5/8" - ZINC PLATED					
WASHER FLAT RND ZNC 16mm (5/8)	Carton	200	9337357004483	1	WFRMZ1600P6
3/4" - ZINC PLATED					
WASHER FLAT RND ZNC 20mm (3/4)	Carton	150	9337357004490	1	WFRMZ2000P6
1" - ZINC PLATED					
WSHR FLAT RND ZNC 24mm (1")	Carton	25	9337357004506	1	WFRMZ2400P6

BSW HEX NUTS

33

ZINC PLATED
AS 2451 - 1998



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
1/4" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 1/4	Carton	150	9337357025280	1	N20WZ0600P6
5/16" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 5/16	Carton	150	9337357025297	1	N20WZ0800P6
3/8" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 3/8	Carton	150	9337357025303	1	N20WZ1000P6
1/2" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 1/2	Carton	150	9337357025310	1	N20WZ1200P6
5/8" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 5/8	Carton	25	9337357025327	1	N20WZ1600P6
3/4" - ZINC PLATED					
HEX NUT PKTS BSW ZNC 3/4	Carton	25	9337357025334	1	N20WZ2000P6

CLASS 8 HEX NUTS

METRIC
GALVANISED
AS 1112 - 2000



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
M8 - GALVANISED					
CL.8 HEX NUT PKTS GAL M8	Carton	100	9337357004513	1	N46MG0800P6
M10 - GALVANISED					
CL.8 HEX NUT PKTS GAL M10	Carton	100	9337357004520	1	N46MG1000P6
M12 - GALVANISED					
CL.8 HEX NUT PKTS GAL M12	Carton	50	9337357004537	1	N46MG1200P6
M16 - GALVANISED					
CL.8 HEX NUT PKTS GAL M16	Carton	20	9337357004544	1	N46MG1600P6
M20 - GALVANISED					
CL.8 HEX NUT PKTS GAL M20	Carton	20	9337357004551	1	N46MG2000P6
M24 - GALVANISED					
CL.8 HEX NUT PKTS GAL M24	Carton	20	9337357004568	1	N46MG2400P6



**METRIC
ZINC PLATED
AS 1112 - 2000**

Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
M3 - ZINC PLATED					
CL.5 HEX NUT PKTS ZNC M3 - Bcd	Carton	1000	9337357004575	1	N46MZ0300P6
M4 - ZINC PLATED					
CL.5 HEX NUT PKTS ZNC M4 - Bcd	Carton	1000	9337357004582	1	N46MZ0400P6
M5 - ZINC PLATED					
CL.5 HEX NUT PKTS ZNC M5 - Bcd	Carton	1000	9337357004599	1	N46MZ0500P6
M6 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M6 - Bcd	Carton	150	9337357004605	1	N46MZ0600P6
M8 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M8 - Bcd	Carton	100	9337357004612	1	N46MZ0800P6
M10 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M10 - Bcd	Carton	100	9337357004629	1	N46MZ1000P6
M12 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M12 - Bcd	Carton	50	9337357004636	1	N46MZ1200P6
M16 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M16 - Bcd	Carton	20	9337357004650	1	N46MZ1600P6
M20 - ZINC PLATED					
CL.8 HEX NUT PKTS ZNC M20 - Bcd	Carton	20	9337357004667	1	N46MZ2000P6

NYLON INSERT LOCK NUTS

35

**UNC
ZINC PLATED
NM - NE SERIES**



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
1/4" - UNC					
NYLON INSERT L/NUT UNC 1/4	Carton	500	9337357004674	1	NNYCZ0600P6
5/16" - UNC					
NYLON INSERT L/NUT UNC 5/16	Carton	400	9337357004681	1	NNYCZ0800P6
3/8" - UNC					
NYLON INSERT L/NUT UNC 3/8	Carton	400	9337357004698	1	NNYCZ1000P6
7/16" - UNC					
NYLON INSERT L/NUT UNC 7/16	Carton	200	9337357004704	1	NNYCZ1100P6
1/2" - UNC					
NYLON INSERT L/NUT UNC 1/2	Carton	200	9337357004711	1	NNYCZ1200P6
9/16" - UNC					
NYLON INSERT L/NUT UNC 9/16	Carton	100	9337357004728	1	NNYCZ1400P6
5/8" - UNC					
NYLON INSERT L/NUT UNC 5/8	Carton	100	9337357004735	1	NNYCZ1600P6
3/4" - UNC					
NYLON INSERT L/NUT UNC 3/4	Carton	50	9337357004742	1	NNYCZ2000P6



**METRIC
ZINC PLATED
DIN 985**

Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
M5 - ISO					
NYLON INSERT L/NUT ISO M5	Carton	500	9337357004759	1	NNYMZ0500P6
M6 - ISO					
NYLON INSERT L/NUT ISO M6	Carton	500	9337357004766	1	NNYMZ0600P6
M8 - ISO					
NYLON INSERT L/NUT ISO M8	Carton	400	9337357004773	1	NNYMZ0800P6
M10 - ISO					
NYLON INSERT L/NUT ISO M10	Carton	400	9337357004780	1	NNYMZ1000P6
M12 - ISO					
NYLON INSERT L/NUT ISO M12	Carton	200	9337357004797	1	NNYMZ1200P6
M16 - ISO					
NYLON INSERT L/NUT ISO M16	Carton	100	9337357004810	1	NNYMZ1600P6
M20 - ISO					
NYLON INSERT L/NUT ISO M20	Carton	50	9337357004834	1	NNYMZ2000P6



NYLON INSERT LOCK NUTS

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**BSW
ZINC PLATED**

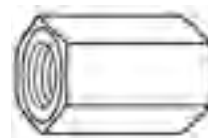


Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
1/4" - BSW					
NYLON INSERT L/NUT BSW 1/4	Carton	200	9337357004858	1	NNYWZ0600P6
5/16" - BSW					
NYLON INSERT L/NUT BSW 5/16	Carton	200	9337357004865	1	NNYWZ0800P6
3/8" - BSW					
NYLON INSERT L/NUT BSW 3/8	Carton	200	9337357004872	1	NNYWZ1000P6
7/16" - BSW					
NYLON INSERT L/NUT BSW 7/16	Carton	200	9337357004889	1	NNYWZ1100P6
1/2" - BSW					
NYLON INSERT L/NUT BSW 1/2	Carton	200	9337357004896	1	NNYWZ1200P6
5/8" - BSW					
NYLON INSERT L/NUT BSW 5/8	Carton	100	9337357004902	1	NNYWZ1600P6
3/4" - BSW					
NYLON INSERT L/NUT BSW 3/4	Carton	50	9337357004919	1	NNYWZ2000P6

HEXAGON COUPLING NUTS

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(CONTINUED)



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
M12 - ZINC PLATED					
HEX COUPLER Z/Y M12 x 40mm	Carton	100	9337357026164	1	NHCMZ120402
M16 - ZINC PLATED					
HEX COUPLER Z/Y M16 x 50mm	Carton	50	9337357026171	1	NHCMZ160502
M20 - ZINC PLATED					
HEX COUPLER Z/Y M20 x 50mm	Carton	25	9337357026188	1	NHCMZ200502

SQUARE WASHERS



Product Description	Pack Type	Pack Quantity	Barcode	Order Quantity	Product Code
M12 - GALVANISED					
WSHR FL SQ GAL M12 (1/2) x 50 x 3	Carton	200	9337357026195	1	WSQMG125032
M16 - GALVANISED					
WSHR FL SQ GAL M16 (5/8) x 50 x 5	Carton	200	9337357025808	1	WSQMG165052
WSHR FL SQ GAL M16 (5/8) x 65 x 5	Carton	100	9337357025815	1	WSQMG166552
M20 - GALVANISED					
WSHR FL SQ GAL M20 (3/4) x 65 x 5	Carton	100	9337357025822	1	WSQMG206552
WSHR FL SQ GAL M20 (3/4) x 75 x 6	Carton	50	9337357025839	1	WSQMG207562
M24 - GALVANISED					
WSHR FL SQ GAL M24 (1) x 75 x 6	Carton	50	9337357025846	1	WSQMG247562
M12 - ZINC PLATED					
WSHR FL SQ Z/Y M12 (1/2) x 50 x 3	Carton	200	9337357025853	1	WSQMZ125032
M16 - ZINC PLATED					
WSHR FL SQ Z/Y M16 (5/8) x 50 x 5	Carton	200	9337357025860	1	WSQMZ165052
WSHR FL SQ Z/Y M16 (5/8) x 65 x 5	Carton	100	9337357025877	1	WSQMZ166552
M20 - ZINC PLATED					
WSHR FL SQ Z/Y M20 (3/4) x 65 x 5	Carton	100	9337357025884	1	WSQMZ206552

Metric Engineers Washers

Metric Engineers Washers to AS1237:1973

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y
M2 x 5.0 x 0.3	200	10,000	1000245	N/A
M2.5 x 6.5 x 0.5	200	10,000	1000246	N/A
M3 x 7.0 x 0.5	200	10,000	1000247	1080750
M4 x 9.0 x 0.8	200	10,000	1000248	1080751
M5 x 10.0 x 1.0	200	10,000	1000249	1080752
M6 x 12.5 x 1.2	200	10,000	1000250	1080753
M8 x 17.0 x 1.2	200	10,000	1000251	1080754
M10 x 21.0 x 1.6	200	5,000	1000252	1080755
M12 x 24.0 x 1.6	200	5,000	1000253	1080756
M16 x 30.0 x 2.0	200	2,000	1000254	1080757
M20 x 37.0 x 2.0	100	1,000	1000255	1080758
M24 x 44.0 x 2.0	100	500	1000256	1080759

Metric Engineers Washers to AS1237:2002 (DIN125A)

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y	HDG
M6 x 12.0 x 1.6	200	10,000	1080152	1002097	1080769
M8 x 16.0 x 1.6	200	10,000	1080153	1002098	1080770
M10 x 21.0 x 2.0	200	5,000	1080154	1002099	1080771
M12 x 24.0 x 2.5	200	2,000	1080155	1002100	1080772
M16 x 30.0 x 3.0	100	1,000	1080156	1002101	1080773
M20 x 37.0 x 3.0	100	1,000	1080157	1002102	1080774
M24 x 44.0 x 4.0	50	250	1080158	1080760	1080775
M30 x 56.0 x 4.0	20	100	1080159	1080761	1080776
M36 x 66.0 x 5.0	15	60	1080160	1080762	1080777

Thickness Gauge Conversion Table

Gauge Thickness (mm)					
10#	3.2	16#	1.6	22#	0.7
11#	2.9	18#	1.2	23#	0.6
12#	2.5	19#	1.0	24#	0.5
14#	2.0	20#	0.9	25#	0.5
15#	1.8	21#	0.8	N/A	N/A

Imperial Engineers Washers

Imperial Engineers Washers to BS3410:1961

Size	Packet Qty	Carton Qty	Zinc Cr3
3/32 x 1/4 x 22#	200	10,000	1000079
1/8 x 5/16 x 22#	200	10,000	1000080
1/8 x 3/8 x 20#	200	10,000	1000081
5/32 x 3/8 x 20#	200	10,000	1000082
5/32 x 7/16 x 20#	200	10,000	1000083
3/16 x 7/16 x 20#	200	10,000	1000084
3/16 x 1/2 x 20#	200	10,000	1000085
3/16 x 5/8 x 18#	200	10,000	1000086
1/4 x 1/2 x 18#	200	10,000	1000087
1/4 x 9/16 x 18#	200	10,000	1000088
1/4 x 5/8 x 18#	200	10,000	1000089
1/4 x 7/8 x 18#	200	5,000	1000698
5/16 x 5/8 x 18#	200	10,000	1000090
5/16 x 3/4 x 18#	200	5,000	1000091
5/16 x 7/8 x 18#	200	5,000	1001259
5/16 x 7/8 x 16#	200	5,000	1000092
3/8 x 5/8 x 18#	200	10,000	1004999
3/8 x 3/4 x 18#	200	5,000	1001184
3/8 x 3/4 x 16#	200	5,000	1000093
3/8 x 7/8 x 18#	200	5,000	1001188
3/8 x 7/8 x 16#	200	5,000	1000094
7/16 x 7/8 x 16#	200	5,000	1000095
7/16 x 1 x 16#	200	2,000	1000096
1/2 x 1 x 16#	200	2,000	1000097
1/2 x 1 1/8 x 16#	200	2,000	1000098
9/16 x 1 1/8 x 16#	200	2,000	1000099
5/8 x 1 1/4 x 15#	200	2,000	1000100
5/8 x 1 3/8 x 15#	200	1,000	1000101
3/4 x 1 1/2 x 14#	100	1,000	1000102
7/8 x 1 5/8 x 14#	100	1,000	1000103
1 x 1 7/8 x 14#	100	500	1000104
1 x 2 1/8 x 14#	100	500	1001192
1 1/8 x 2 1/8 x 14#	50	500	1001196

See Thickness Gauge Conversion Table on page 1

Imperial Mudguard Washers

Imperial Engineers Washers to BS3410:1961

Size	Packet Qty	Carton Qty	Zinc Cr3	WASCOAT™
1/8 x 1/2 x 20#	200	10,000	1000950	N/A
1/8 x 5/8 x 18#	200	10,000	1001200	N/A
5/32 x 5/8 x 16#	200	5,000	1001264	N/A
3/16 x 1/2 x 16#	200	10,000	1001204	1080676
3/16 x 5/8 x 16#	200	5,000	1001310	1080677
3/16 x 3/4 x 18#	200	5,000	1000371	1080678
3/16 x 3/4 x 16#	200	5,000	1000372	1080679
3/16 x 1 x 16#	200	2,000	1000692	1080680
3/16 x 1 1/4 x 16#	200	2,000	1000693	1080681
1/4 x 1/2 x 16#	200	10,000	1001208	N/A
1/4 x 3/4 x 18#	200	5,000	1000373	N/A
1/4 x 3/4 x 16#	200	5,000	1000374	N/A
1/4 x 1 x 16#	200	2,000	1000375	1080685
1/4 x 1 1/4 x 16#	200	2,000	1000376	1080686
1/4 x 1 1/2 x 16#	200	1,000	1005088	1080687
1/4 x 2 x 16#	100	500	1000377	1080688
5/16 x 1/2 x 18#	200	10,000	1001344	N/A
5/16 x 3/4 x 16#	200	5,000	1000378	1080690
5/16 x 1 x 16#	200	2,000	1000379	1080691
5/16 x 1 1/4 x 16#	200	2,000	1000380	1080692
5/16 x 1 1/2 x 16#	200	1,000	1000993	1080693
5/16 x 2 x 16#	100	500	1000381	1080694
3/8 x 1 x 16#	200	2,000	1000382	N/A
3/8 x 1 1/4 x 16#	200	2,000	1000383	1080696
3/8 x 1 1/2 x 16#	200	1,000	1000384	1080697
3/8 x 1 7/8 x 14#	100	500	1000945	N/A
3/8 x 2 x 16#	100	500	1000385	1080699
3/8 x 2 x 12#	100	500	1000386	1080700
1/2 x 1 1/4 x 16#	200	2,000	1001212	1080701
1/2 x 1 1/2 x 14#	200	1,000	1000388	1080702
1/2 x 1 7/8 x 14#	100	500	1000942	1080703
1/2 x 2 x 16#	100	500	1000389	1080704
1/2 x 2 x 12#	100	500	1000390	1080705
9/16 x 1 1/4 x 16#	200	2,000	1000997	1080706
5/8 x 2 x 16#	100	500	1000391	1080707
5/8 x 2 x 12#	100	500	1000392	1080708
M10 x 1 1/4 x 16#	200	2,000	1000387	N/A

See Thickness Gauge Conversion Table on page 1

Commercial Washers

Metric Commercial Washers to AS1237:1973

Bolt Size	Metric Tolerance	Packet Qty	Carton Qty	Plain	Zinc Cr3	HDG
M6	6.7/6.9 x 15.7/16.0 x 1.8/2.1	200	5,000	1002049	1002059	1002069
M8	8.4/8.6 x 19.7/21.0 x 1.8/2.1	200	4,000	1002050	1002060	1002070
M10	10.5/11.0 x 22.7/24.0 x 1.8/2.1	200	3,000	1002051	1002061	1002071
M12	13.2/14.0 x 28.0/29.0 x 2.5/2.7	100	2,000	1002052	1002062	1002072
M16	17.2/18.0 x 32.4/34.0 x 2.5/2.7	100	1,000	1002053	1002063	1002073
M20	21.0/22.0 x 37.4/39.0 x 2.5/2.7	50	800	1002054	1002064	1002074
M22	24.0/25.0 x 42.2/44.0 x 2.5/2.7	50	500	1080170	1080175	1080181
M24	26.0/27.0 x 48.4/50.0 x 3.7/4.2	25	300	1002055	1002065	1002075
M27	30.0/31.0 x 54.1/56.0 x 3.7/4.2	25	200	1080171	1080176	1080182
M30	33.0/34.5 x 58.1/60.0 x 4.7/5.2	25	200	1002056	1002066	1002076
M36	39.0/40.5 x 70.0/72.0 x 5.7/6.3	25	100	1002057	1002067	1002077
M42	45.0/46.0 x 77.0/80.0 x 5.7/6.3	10	100	1002058	1080177	1002078
M48	52.0/53.0 x 93.8/96.0 x 7.5/8.5	10	40	1080172	1080178	1080183
M56	62.0/63.0 x 109.8/112.0 x 8.5/9.5	10	40	1080173	1080179	1080184
M64	70.0/71.0 x 125.5/128.0 x 8.5/9.5	5	20	1080174	1080180	1080185

Metric Extra Commercial Washers to AS1237:1973

Bolt Size	Metric Tolerance	Carton Qty	Plain	Zinc Cr3	HDG
M10	11.0/11.5 x 28.7/30.0 x 2.3/2.7	1,000	1006899	1006909	1006904
M12	14.0/14.5 x 35.4/37.0 x 2.8/3.2	500	1006900	1006910	1006905
M16	18.0/18.5 x 48.4/50.0 x 3.7/4.2	200	1006901	1006911	1006906
M20	22.0/23.0 x 58.1/60.0 x 3.7/4.2	150	1006902	1006912	1006907
M24	26.0/27.0 x 70.1/72.0 x 5.7/6.2	75	1006903	1006913	1006908
M30	33.0/34.0 x 89.8/92.0 x 5.7/6.2	60	1080190	1080192	1080194
M36	39.0/40.0 x 107.8/110.0 x 7.5/8.5	50	1080191	1080193	1080195

Commercial Washers

Imperial Commercial Washers to BS3410:1961

Bolt Size	Metric Tolerance	Packet Qty	Carton Qty	Plain	Zinc Cr3	HDG
1/4 (M6)	6.8/7.2 x 18.7/19.3 x 1.4/1.8	200	5,000	1080100	1080114	1080126
5/16 (M8)	8.8/9.2 x 21.7/22.3 x 1.6/2.0	200	3,000	1080101	1080115	1080127
3/8 (M10)	10.8/11.2 x 25.7/26.3 x 1.8/2.2	200	2,000	1080102	1080116	1080128
1/2 (M12)	13.5/13.9 x 31.7/32.3 x 2.3/2.7	100	800	1080103	1080117	1080129
5/8 (M16)	17.6/18.2 x 37.5/38.5 x 2.7/3.3	100	400	1080104	1080118	1080130
3/4 (M20)	21.2/21.8 x 44.5/45.5 x 2.9/3.5	50	250	1080105	1080119	1080131
7/8 (M22)	23.7/24.3 x 50.5/51.5 x 3.2/3.8	50	250	1080106	1080120	1080132
1" (M24)	26.7/27.3 x 54.5/55.5 x 3.7/4.3	25	150	1080107	1080121	1080133
1 1/8 (M27)	29.3/30.3 x 59.5/60.5 x 4.2/4.8	20	100	1080108	1080122	1080134
1 1/4 (M30)	32.9/33.7 x 65.2/66.8 x 4.5/5.5	15	75	1080109	1080123	1080135
1 3/8 (M33)	35.9/36.7 x 70.2/71.8 x 5.0/6.0	10	50	1080110	1080124	1080136
1 1/2 (M36)	38.9/39.7 x 75.2/76.8 x 5.5/6.5	10	40	1080111	1080125	1080137
1 3/4 (M42)	44.9/45.7 x 82.2/83.8 x 6.5/7.5	10	40	1080112	N/A	1080138
2" (M48)	51.9/52.4 x 95.2/96.8 x 7.5/8.5	10	30	1080113	N/A	1080139

Come to the place with the largest range!

Did you know that WASCA manufacture and supply multiple ranges of Commercial washers that are currently in the market? Our metric range is manufactured to AS1237:1973 and our Imperial range is manufactured to BS3410:1961; which boasts larger outside diameters and greater thicknesses. All are available in Plain Steel, Zinc Cr3 and Hot Dipped Galvanised.

But remember, as Australia's premium stamping manufacturer, if standard sizes stocked do not suit or you are looking for a custom size, do not hesitate to contact Sales for a quote.

Flat Section Spring Washers

Flat Section Metric Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y	HDG	Black
M3 x 1.3 x 0.8	200	10,000	1000403	1080783	N/A	N/A
M4 x 1.5 x 0.9	200	10,000	1000404	1080784	N/A	N/A
M5 x 1.8 x 1.2	200	10,000	1000405	1080785	N/A	1008000
M6 x 2.5 x 1.6	200	10,000	1000406	1080786	1001345	1008001
M8 x 3.0 x 2.0	200	5,000	1000407	1080787	1005083	1008002
M10 x 3.5 x 2.2	200	5,000	1000408	1080788	1000970	1008004
M12 x 4.0 x 2.5	200	2,000	1000409	1080789	1000969	1008005
M14 x 4.5 x 3.0	200	2,000	1008035	1080790	N/A	1008007
M16 x 5.0 x 3.5	200	1,000	1000410	1080791	1000968	1008008
M20 x 6.0 x 4.0	100	500	1000411	1080792	1000967	1008010
M24 x 7.0 x 5.0	100	500	1000412	1080793	1000966	1008012
M30 x 8.0 x 6.0	50	250	1080140	1080794	1080141	N/A
M36 x 8.0 x 6.0	50	250	N/A	N/A	1080142	N/A

Flat Section Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
1/8 x 3/64 x 1/32	200	10,000	1000834	N/A
5/32 x 1/16 x 3/64	200	10,000	1000425	N/A
3/16 x 1/16 x 3/64	200	10,000	1000426	1008062
1/4 x 3/32 x 1/16	200	10,000	1000427	1008063
5/16 x 1/8 x 5/64	200	5,000	1000428	1008064
3/8 x 1/8 x 3/32	200	5,000	1000429	1008065
7/16 x 5/32 x 3/32	200	2,000	1000430	1008066
1/2 x 3/16 x 1/8	200	2,000	1000431	1008067
9/16 x 3/16 x 1/8	200	2,000	1000432	1008068
5/8 x 7/32 x 5/32	200	1,000	1000433	1008069
3/4 x 1/4 x 3/16	100	500	1000434	1008070
7/8 x 1/4 x 7/32	50	250	1000435	1008071
1 x 5/16 x 1/4	50	250	1000436	1008072
1 1/8 x 5/16 x 1/4	25	250	1008664	N/A
1 1/4 x 5/16 x 1/4	25	125	1008666	N/A
1 1/2 x 3/8 x 1/4	25	125	1008668	N/A

Flat Section Heavy Duty Spring Washers

Flat Section Heavy Duty Metric Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
M6 x 3.2 x 1.6	200	10,000	1080827	1080834
M8 x 3.2 x 2.5	200	10,000	1080828	1080835
M10 x 4.0 x 2.5	200	5,000	1080829	1080836
M12 x 4.8 x 3.2	100	2,000	1080830	1080837
M16 x 5.5 x 4.0	100	1,000	1080831	1080838
M20 x 8.0 x 6.4	50	250	1080832	1080839
M24 x 10.0 x 6.0	50	250	1080833	1080840

Flat Section Heavy Duty Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
3/16 x 3/32 x 1/16	200	10,000	1008095	1008086
1/4 x 1/8 x 1/16	200	10,000	1008096	1008087
5/16 x 9/64 x 3/32	200	5,000	1008097	1008088
3/8 x 5/32 x 3/32	200	5,000	1008098	1008089
7/16 x 3/16 x 1/8	200	2,000	1008099	1008090
1/2 x 3/16 x 5/32	200	2,000	1008100	1008091
5/8 x 7/32 x 3/16	100	1,000	1008101	1008092
7/8 x 5/16 x 1/4	50	250	1008102	1008093
1 1/4 x 3/8 x 5/16	25	125	1008085	1008073

Ever needed a product that doesn't quite fit into the criteria of standard?

Well when it comes to stamped components, WASCA can help.

Whether you have a sample or even a simple sketch, our experienced Engineers can help solve your problem quickly and cost effectively. We can handle any diameter or thickness and can co-ordinate any special requirements such as plating finishes, heat treatment or even shipping requirements!

Square Section Spring Washers

Square Section Metric Spring Washers to DIN7980

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
M4 x 1.2 x 1.2	200	10,000	1008053	1008043
M4 x 1.5 x 1.5	200	10,000	1005221	N/A
M5 x 1.5 x 1.5	200	10,000	1004942	1008044
M6 x 1.5 x 1.5	200	10,000	1007293	1008045
M6 x 2.5 x 2.5	200	10,000	1004789	N/A
M8 x 2.0 x 2.0	200	5,000	1004202	1008046
M8 x 2.5 x 2.5	200	10,000	1004794	N/A
M10 x 2.5 x 2.5	200	5,000	1004827	1008047
M10 x 3.2 x 3.2	200	5,000	1004793	N/A
M12 x 2.5 x 2.5	200	5,000	1008058	1008048
M12 x 3.2 x 3.2	200	2,000	1005033	N/A
M12 x 4.0 x 4.0	200	2,000	1005693	N/A
M16 x 3.2 x 3.2	200	1,000	1005121	N/A
M16 x 3.5 x 3.5	200	2,000	1008059	1008049
M20 x 4.5 x 4.5	100	1,000	1008060	1008050
M24 x 5.0 x 5.0	100	500	1008061	1008051

Square Section Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	HDG	Black
1/8 x 3/64 x 3/64	200	10,000	1005255	N/A	N/A
5/32 x 3/64 x 3/64	200	10,000	1004818	N/A	1008105
5/32 x 1/16 x 1/16	200	10,000	1004987	N/A	N/A
3/16 x 3/64 x 3/64	200	10,000	1004949	N/A	1008106
3/16 x 1/16 x 1/16	200	10,000	1005461	N/A	N/A
1/4 x 3/32 x 3/32	200	10,000	1004791	N/A	N/A
1/4 x 1/16 x 1/16	200	10,000	1004807	1008119	1008107
5/16 x 5/64 x 5/64	200	10,000	1004806	1008120	1008108
5/16 x 3/32 x 3/32	200	10,000	1005086	N/A	N/A
3/8 x 3/32 x 3/32	200	5,000	1004816	1008121	1008109
3/8 x 1/8 x 1/8	200	5,000	1005305	N/A	N/A
7/16 x 3/32 x 3/32	200	5,000	1005338	1008122	1008110
1/2 x 7/64 x 7/64	200	2,000	1008135	1008123	1008111
1/2 x 1/8 x 1/8	200	2,000	1005479	N/A	N/A
1/2 x 5/32 x 5/32	200	2,000	1004870	N/A	N/A
5/8 x 1/8 x 1/8	200	2,000	1005046	1008124	1008112
3/4 x 3/16 x 3/16	200	1,000	1005195	N/A	N/A
3/4 x 1/4 x 1/4	100	500	1006604	1008125	1008113
7/8 x 3/16 x 3/16	100	500	1008138	1008126	1008114
1 x 3/16 x 3/16	50	500	1008139	1008127	1008115
1 x 5/16 x 5/16	50	250	1008103	N/A	1008094

Structural & Load Indicating Washers

Structural Washers to AS1252:1996

Size	Carton Qty	Plain	HDG
M12 (14.0/14.2 x 25.3/26.0 x 3.1)	1,000	1006134	1005031
M16 (18.0/18.4 x 32.4/34.0 x 3.1)	800	1006135	1006138
M20 (22.0/22.5 x 40.4/42.0 x 3.1)	500	1006136	1006137
M22 (24.0/24.5 x 42.4/44.0 x 3.4)	350	1006140	1006164
M24 (26.0/26.5 x 48.4/50.0 x 3.4)	350	1004988	1006139
M27 (30.0/30.5 x 54.1/56.0 x 3.4)	250	1009504	1008923
M30 (33.0/33.6 x 58.1/60.0 x 3.4)	250	1006168	1006165
M36 (39.0/39.6 x 70.1/72.0 x 3.4)	200	1006167	1006166

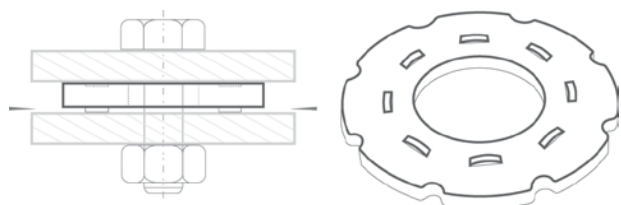
Load Indicating Washers Hot Dipped Galvanised to ASTM F959M

Size	Carton Qty	HDG
M16 (16.7/16.8 x 35.2/36.8 x 3.2/5.5)	500	1080060
M20 (20.9/21.0 x 44.0/46.0 x 3.6/6.0)	250	1080061
M24 (25.1/25.2 x 52.8/55.2 x 4.0/7.0)	200	1080062
M30 (31.4/31.5 x 66.0/69.0 x 4.0/7.0)	150	1080063
M36 (37.7/37.8 x 79.2/82.8 x 4.8/7.5)	100	1080064

Load Indicating Washers Tolerances

Nominal Diameter	Outside Diameter		Number of Protrusions	Thickness		Inside Diameter		Acceptable range of Compression Load Range, kn
	Min	Max		Without Protrusion	With Protrusion	Uncoated Min	Uncoated Max	
M16	35.2	36.8	4	3.2	5.5	16.7	16.8	91-109
M20	44.0	46.0	5	3.6	6.0	20.9	21.0	142-170
M22	48.4	50.6	5	3.6	6.0	23.0	23.1	176-211
M24	52.8	55.2	5	4.0	7.0	25.1	25.2	205-246
M27	59.4	62.1	6	4.0	7.0	28.3	28.4	267-320
M30	66.0	69.0	7	4.0	7.0	31.4	31.5	326-391
M36	79.2	82.8	8	4.8	7.5	37.7	37.8	475-570

Load Indicating or DTI washers are specifically designed as a mechanical load cell to indicate when the minimum required tension has been achieved in structural bolt assemblies. They are intended to be assembled under a Bolt head or Hardened washer; and have the identical material composition and hardness of Structural washers.



WASCA® High Tensile Washers

WASCA® High Tensile Washers based on ASTM F436:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Z/Y	Zinc Cr3	Plain	WASCOAT™
1/4 (M6)	7.1/7.2 x 15.4/15.8 x 1.8/2.1	200	5,000	1080001	1080021	1001374	1080851
5/16 (M8)	8.6/8.8 x 16.7/17.0 x 1.8/2.1	200	5,000	1080002	1080022	1001375	1080852
3/8 (M10)	10.3/10.5 x 20.2/20.6 x 1.8/2.1	200	5,000	1080003	1080023	1001376	1080853
3/8 (M10)	10.3/10.5 x 26.7/26.9 x 2.8/3.0	200	1,000	1080004	1080024	1001377	1080854
7/16	11.6/11.8 x 22.1/22.4 x 1.8/2.1	200	2,000	1080005	1080025	1001378	1080855
1/2 (M12)	13.4/13.6 x 26.7/26.9 x 2.8/3.0	200	1,000	1080006	1080026	1001379	1080856
9/16 (M14)	14.9/15.1 x 29.5/30.1 x 2.8/3.0	200	1,000	1080007	1080027	1001380	1080857
5/8 (M16)	16.7/17.0 x 32.7/33.0 x 3.1/3.7	200	1,000	1080008	1080028	1001381	1080858
3/4 (M20)	20.9/21.1 x 36.7/38.1 x 3.1/3.7	100	500	1080009	1080029	1001382	1080859
7/8 (M22)	23.7/24.1 x 43.9/44.4 x 3.5/4.0	100	500	1080010	1080030	1001383	1080860
M24	25.0/25.3 x 47.3/48.0 x 3.5/4.0	100	500	1080011	1080031	1001384	1080861
1" (M24)	27.1/27.6 x 50.0/50.8 x 3.5/4.0	100	500	1080012	1080032	1001385	1080862
1 1/8 (M27)	31.7/32.2 x 56.3/57.1 x 3.5/4.0	50	250	1080013	1080033	1001386	1080863
1 1/4 (M30)	34.9/35.4 x 62.7/63.5 x 3.5/4.0	50	250	1080014	1080034	1001387	1080864
1 3/8 (M33)	37.8/38.0 x 69.0/69.8 x 3.5/4.0	50	250	1080015	1080035	1001388	1080865
1 1/2 (M36)	40.8/41.4 x 75.4/76.2 x 3.5/4.0	25	125	1080016	1080036	1001389	1080866

WASCA® High Tensile Washers

Why trust anyone else but one of the original Australian manufacturers of High Tensile Washers?

WASCA® has been producing washers in Australia for 50 Years; and became the leading manufacturer and supplier of High Tensile Washer products since 1996 when it took over the operations of Olpp Engineering - the Premium manufacturer of High Tensile Washers in Australia.

Continuing this tradition WASCA® accelerated its range, quality and expertise to offer a truly high end product, backed up by Engineering, Testing and Full Certification.

Specifically, High Tensile product demands the greatest understanding of the processes required in its production.

High Tensile Washers - Imperial & Metric

High Tensile Washers Zinc Yellow to ASTM F436:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Z/Y
1/4	7.1/7.9 x 15.0/16.6 x 1.2/2.0	200	5,000	1000630
5/16	8.7/9.5 x 16.6/18.2 x 1.2/2.0	200	5,000	1000631
3/8	10.3/11.1 x 19.8/21.4 x 1.2/2.0	200	5,000	1000632
7/16	11.9/12.7 x 22.6/24.2 x 1.2/2.0	200	2,000	1000634
1/2	13.4/14.3 x 26.1/27.8 x 2.4/4.4	200	1,000	1000635
9/16	15.8/16.6 x 29.3/30.9 x 2.7/4.4	200	1,000	1000636
5/8	17.4/18.2 x 32.5/34.1 x 3.0/4.4	200	1,000	1000637
3/4	20.6/21.4 x 36.4/38.1 x 3.0/4.5	100	500	1000638
7/8	23.8/24.6 x 43.6/45.2 x 3.4/4.4	100	500	1000639
1"	27.0/28.6 x 49.2/52.4 x 3.4/4.4	100	500	1000640
M24	25.0/25.3 x 47.3/48.0 x 3.4/4.4	100	500	1000660
1 1/8	30.1/31.7 x 55.5/58.7 x 3.4/4.4	50	250	1001167
1 1/4	34.9/36.5 x 61.9/65.1 x 3.4/4.4	50	250	1001168
1 3/8	38.1/39.7 x 68.2/71.4 x 3.4/4.4	50	250	1001169
1 1/2	41.2/42.8 x 74.6/77.8 x 3.4/4.4	25	125	1001170
1 3/4	47.6/49.2 x 84.1/87.3 x 4.5/7.1	20	100	1060236
2"	53.9/55.5 x 93.6/96.8 x 4.5/7.1	20	100	1060237
2 1/4	58.7/60.3 x 100.0/103.2 x 6.0/8.6	10	40	1060754
2 1/2	65.0/66.6 x 112.7/115.9 x 6.0/8.6	10	40	1060755
3"	77.7/79.3 x 138.2/141.3 x 6.0/8.6	10	40	1060756

High Tensile Washers to ASTM F436M:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Zinc Cr3	WASCOAT™
M6	6.7/7.0 x 12.7/13.0 x 1.6/2.0	200	5,000	1080600	1080872
M8	8.7/9.0 x 18.0/18.5 x 2.0/2.5	200	5,000	1080601	1080873
M10	10.3/10.5 x 20.2/20.6 x 1.8/2.0	200	5,000	1080602	1080874
M12	13.0/13.5 x 27.0/27.5 x 4.0/4.5	200	1,000	1080603	1080875
M14	15.0/15.5 x 30.0/30.5 x 4.0/4.5	200	1,000	1080604	1080876
M16	17.0/17.5 x 34.0/34.5 x 4.0/4.5	100	1,000	1080605	1080877
M20	21.5/22.0 x 42.0/43.0 x 4.0/4.5	50	250	1080606	1080878
M24	25.5/26.0 x 49.5/50.0 x 4.5/5.0	50	250	1080607	1080879
M30	32.0/32.5 x 60.0/62.0 x 4.5/5.0	50	250	1080608	1080880
M36	38.5/39.0 x 72.0/74.0 x 4.5/5.0	25	125	1080609	1080881

For a more superior corrosion resistant coating try WASCOAT™. See page 16 for more information

Square Washers

Metric Square Washers based on DIN436

Size	Carton Qty	Plain	HDG	Zinc Cr3
40 x 40 x 3 (M8 Hole)	500	1001100	1001097	N/A
40 x 40 x 3 (M10 Hole)	500	1001101	1001098	1007524
40 x 40 x 3 (M12 Hole)	500	1001180	1001099	1005714

50 x 50 x 3 (M10 Hole)	300	1001102	1001106	1001302
50 x 50 x 3 (M12 Hole)	300	1001103	1001107	1001261
50 x 50 x 3 (M16 Hole)	300	1001104	1001108	1009079
50 x 50 x 3 (M20 Hole)	300	1001105	1001109	N/A

50 x 50 x 5 (M10 Hole)	200	1001110	1001114	N/A
50 x 50 x 5 (M12 Hole)	200	1001111	1001115	N/A
50 x 50 x 5 (M16 Hole)	200	1001112	1001116	N/A
50 x 50 x 5 (M20 Hole)	200	1001113	1001117	N/A

50 x 50 x 6 (M10 Hole)	150	1001118	1001122	N/A
50 x 50 x 6 (M12 Hole)	150	1001119	1001123	1090717
50 x 50 x 6 (M16 Hole)	150	1001120	1001179	N/A
50 x 50 x 6 (M20 Hole)	150	1001121	1001124	N/A

50 x 50 x 8 (M10 Hole)	100	1060366	1091126	N/A
50 x 50 x 8 (M12 Hole)	100	1060367	1091127	N/A
50 x 50 x 8 (M16 Hole)	100	1060368	1091128	N/A
50 x 50 x 8 (M20 Hole)	100	1060369	1091129	N/A
50 x 50 x 8 (M24 Hole)	100	1060370	1091130	N/A

50 x 50 x 10 (M10 Hole)	100	1060371	1091131	N/A
50 x 50 x 10 (M12 Hole)	100	1060372	1091132	N/A
50 x 50 x 10 (M16 Hole)	100	1060373	1091133	N/A
50 x 50 x 10 (M20 Hole)	100	1060374	1091134	N/A
50 x 50 x 10 (M24 Hole)	100	1060375	1091135	N/A

65 x 65 x 5 (M12 Hole)	100	1001125	1001128	N/A
65 x 65 x 5 (M16 Hole)	100	1001126	1001130	1007361
65 x 65 x 5 (M20 Hole)	100	1001127	1001131	N/A
65 x 65 x 5 (M24 Hole)	100	1001129	1001132	N/A

Square Washers

Metric Square Washers based on DIN436 - continued

Size	Carton Qty	Plain	HDG
65 x 65 x 6 (M12 Hole)	100	1001133	1001136
65 x 65 x 6 (M16 Hole)	100	1001134	1001138
65 x 65 x 6 (M20 Hole)	100	1001135	1001139
65 x 65 x 6 (M24 Hole)	100	1001137	1001140

65 x 65 x 8 x (M16 Hole)	50	1060840	1091555
65 x 65 x 8 x (M20 Hole)	50	1060841	1091556
65 x 65 x 8 x (M24 Hole)	50	1060842	1091557
65 x 65 x 8 x (M30 Hole)	50	1060843	1091558

65 x 65 x 10 x (M16 Hole)	50	1060378	1091138
65 x 65 x 10 x (M20 Hole)	50	1060379	1091139
65 x 65 x 10 x (M24 Hole)	50	1060380	1091140
65 x 65 x 10 x (M30 Hole)	50	1060381	1091141

75 x 75 x 5 (M12 Hole)	50	1001141	1001146
75 x 75 x 5 (M16 Hole)	50	1001142	1001147
75 x 75 x 5 (M20 Hole)	50	1001143	1001148
75 x 75 x 5 (M24 Hole)	50	1001144	1001149
75 x 75 x 5 (M30 Hole)	50	1001145	1001150

75 x 75 x 6 (M12 Hole)	50	1001151	1001156
75 x 75 x 6 (M16 Hole)	50	1001152	1001157
75 x 75 x 6 (M20 Hole)	50	1001153	1001177
75 x 75 x 6 (M24 Hole)	50	1001154	1001178
75 x 75 x 6 (M30 Hole)	50	1001155	1001158

75 x 75 x 8 (M10 Hole)	50	1060382	1091142
75 x 75 x 8 (M12 Hole)	50	1060383	1091143
75 x 75 x 8 (M16 Hole)	50	1060384	1091144
75 x 75 x 8 (M20 Hole)	50	1060385	1091145
75 x 75 x 8 (M24 Hole)	50	1060386	1091146
75 x 75 x 8 (M30 Hole)	50	1060387	1091147

75 x 75 x 10 (M10 Hole)	40	1060388	1091148
75 x 75 x 10 (M12 Hole)	40	1060389	1091149
75 x 75 x 10 (M16 Hole)	40	1060390	1091150
75 x 75 x 10 (M20 Hole)	40	1060391	1091151
75 x 75 x 10 (M24 Hole)	40	1060392	1091152
75 x 75 x 10 (M30 Hole)	40	1060393	1091153

Square Washers

Metric Square Washers based on DIN436 - continued

Size	Carton Qty	Plain	HDG
75 x 75 x 12 (M10 Hole)	40	1060394	1091154
75 x 75 x 12 (M12 Hole)	40	1060395	1091155
75 x 75 x 12 (M16 Hole)	40	1060396	1091156
75 x 75 x 12 (M20 Hole)	40	1060397	1091157
75 x 75 x 12 (M24 Hole)	40	1060398	1091158
75 x 75 x 12 (M30 Hole)	40	1060399	1091159

90 x 90 x 12 (M16 Hole)	40	1060412	1091172
90 x 90 x 12 (M20 Hole)	40	1060413	1091173
90 x 90 x 12 (M24 Hole)	40	1060414	1091174
90 x 90 x 12 (M30 Hole)	40	1060415	1091175

100 x 100 x 6 x (M12 Hole)	40	1060417	1091177
100 x 100 x 6 x (M16 Hole)	40	1060418	1091178
100 x 100 x 6 x (M20 Hole)	40	1060419	1091179
100 x 100 x 6 x (M24 Hole)	40	1060420	1091180
100 x 100 x 6 x (M30 Hole)	40	1060421	1091181
100 x 100 x 6 x (M36 Hole)	40	1060422	1091182

100 x 100 x 8 (M12 Hole)	40	1060423	1091183
100 x 100 x 8 (M16 Hole)	40	1060424	1091184
100 x 100 x 8 (M20 Hole)	40	1060425	1091185
100 x 100 x 8 (M24 Hole)	40	1060426	1091186
100 x 100 x 8 (M30 Hole)	40	1060427	1091187
100 x 100 x 8 (M36 Hole)	40	1060428	1091188

100 x 100 x 10 (M12 Hole)	20	1060429	1091189
100 x 100 x 10 (M16 Hole)	20	1060430	1091190
100 x 100 x 10 (M20 Hole)	20	1060431	1091191
100 x 100 x 10 (M24 Hole)	20	1060432	1091192
100 x 100 x 10 (M30 Hole)	20	1060433	1091193
100 x 100 x 10 (M36 Hole)	20	1060434	1091194

100 x 100 x 12 x (M12 Hole)	20	1060435	1091195
100 x 100 x 12 x (M16 Hole)	20	1060436	1091196
100 x 100 x 12 x (M20 Hole)	20	1060437	1091197
100 x 100 x 12 x (M24 Hole)	20	1060438	1091198
100 x 100 x 12 x (M30 Hole)	20	1060439	1091199
100 x 100 x 12 x (M36 Hole)	20	1060440	1091200

Tapered & Tower Washers

Tapered Washers to AS1252:1996

Size/Description	Carton Qty	HDG	Plain	Structural HDG
M10 x 40 x 40 8° Tapered Washers	100	1006845	1006844	N/A
M12 x 40 x 40 8° Tapered Washers	100	1006849	1006848	1006851
M16 x 40 x 40 8° Tapered Washers	100	1006853	1006852	1006855
M20 x 40 x 40 8° Tapered Washers	100	1006857	1006856	1006859
M24 x 50 x 50 8° Tapered Washers	100	1006861	1006860	1006863
M30 x 57 x 57 8° Tapered Washers	100	1006865	1006864	N/A
M36 x 57 x 57 8° Tapered Washers	100	1006869	1006868	N/A

Tower Washers to AS1559:1997

Size/Description	Carton Qty	HDG
M12 (14.0/14.3 x 22.7/24.0 x 4.7/5.5)	1,000	1000971
M16 (18.0/18.4 x 28.7/30.0 x 4.7/5.2)	750	1000972
M20 (22.0/22.5 x 35.4/37.0 x 4.7/5.2)	750	1000973
M22 (23.8/24.3 x 41.6/43.0 x 4.7/5.2)	400	1060009
M24 (26.0/26.5 x 42.4/44.0 x 4.7/5.2)	500	1000974

WASCOAT™

WASCOAT™ was developed as an improvement on Hot Dipped Galvanising as it is especially suitable for smaller and high tensile parts. Testing carried out has shown that WASCOAT™ is of a higher quality and will perform better in comparison to parts that have been Hot Dipped Galvanised.

This coating is equivalent to HDG, but shows further benefits as follows:

- Improved corrosion protection
- Reduced white rusting
- No hydrogen embrittlement
- No de-tempering
- A more consistent and smoother finish
- Sticking of parts is eliminated
- Product application can be carried out with ease
- Better thread fit
- It's silver colour is aesthetically pleasing

Brass Washers

Flat Metric Brass Washers to AS1237:1973

Size	Packet Qty	Carton Qty	Code
M2 x 5.0 x 0.3	200	10,000	1000269
M2.5 x 6.5 x 0.5	200	10,000	1000270
M3 x 7.0 x 0.5	200	10,000	1000271
M4 x 9.0 x 0.8	200	10,000	1000272
M5 x 10.0 x 0.8	200	10,000	1000273
M6 x 12.5 x 1.0	200	10,000	1000274
M8 x 17.0 x 1.2	200	10,000	1000275
M10 x 21.0 x 1.2	200	5,000	1000276
M12 x 24.0 x 1.6	200	5,000	1000277
M16 x 30.0 x 2.0	200	2,000	1000278
M20 x 37.0 x 2.0	100	1,000	1000279
M24 x 44.0 x 2.0	100	500	1000280

Flat Imperial Brass Washers to BS 3410:1961

Size	Packet Qty	Carton Qty	Code
3/32 x 1/4 x 24#	200	10,000	1000131
1/8 x 5/16 x 21#	200	10,000	1000132
1/8 x 3/8 x 21#	200	10,000	1000133
5/32 x 3/8 x 21#	200	10,000	1000134
5/32 x 7/16 x 21#	200	10,000	1000135
3/16 x 7/16 x 21#	200	10,000	1000136
3/16 x 1/2 x 21#	200	10,000	1000137
3/16 x 5/8 x 19#	200	10,000	1000138
1/4 x 1/2 x 21#	200	10,000	1000139
1/4 x 9/16 x 19#	200	10,000	1000140
1/4 x 5/8 x 19#	200	10,000	1000141
5/16 x 5/8 x 18#	200	10,000	1000142
5/16 x 3/4 x 18#	200	5,000	1000143
5/16 x 7/8 x 18#	200	5,000	1000144
3/8 x 3/4 x 18#	200	5,000	1000145
3/8 x 7/8 x 18#	200	5,000	1000146
3/8 x 1 x 16#	200	2,000	1000147
7/16 x 7/8 x 16#	200	5,000	1000148
7/16 x 1 x 16#	200	2,000	1000149
1/2 x 1 x 16#	200	2,000	1000150
1/2 x 1 1/8 x 16#	200	2,000	1000151
9/16 x 1 1/8 x 16#	200	2,000	1001198
5/8 x 1 1/4 x 16#	200	2,000	1000152
5/8 x 1 3/8 x 16#	200	1,000	1000153
3/4 x 1 1/2 x 14#	100	1,000	1000154
7/8 x 1 5/8 x 14#	100	1,000	1000155
1 x 1 7/8 x 14#	100	500	1000156
1 x 2 1/8 x 14#	50	250	1001348

Stainless Steel & Screw Cup Washers

Metric Stainless Steel Flat Washers to AS1237:1973

Size	Packet Qty	Carton Qty	304	316
M4 x 9.0 x 0.8	200	10,000	1080200	1080210
M5 x 10.0 x 1.0	200	10,000	1080201	1080211
M6 x 12.5 x 1.2	200	10,000	1080202	1080212
M8 x 17.0 x 1.2	200	10,000	1080203	1080213
M10 x 21.0 x 1.6	200	5,000	1080204	1080214
M12 x 24.0 x 1.6	200	5,000	1080205	1080215
M16 x 30.0 x 2.0	200	2,000	1080206	1080216
M20 x 37.0 x 2.0	100	1,000	1080207	1080217
M24 x 44.0 x 2.0	100	500	1080208	1080218

Metric Stainless Steel Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	304	316
M4 x 1.5 x 0.9	200	10,000	1080220	1080230
M5 x 1.8 x 1.2	200	10,000	1080221	1080231
M6 x 2.5 x 1.6	200	10,000	1080222	1080232
M8 x 3.0 x 2.0	200	10,000	1080223	1080233
M10 x 3.5 x 2.2	200	5,000	1080224	1080234
M12 x 4.0 x 2.5	200	2,000	1080225	1080235
M16 x 5.0 x 3.5	200	1,000	1080226	1080236
M20 x 6.0 x 4.0	100	1,000	1080227	1080237
M24 x 7.0 x 5.0	100	500	1080228	1080238
M30 x 8.0 x 6.0	50	500	1080229	1080239

Screw Cup Washers

Size	Packet Qty	Carton Qty	Stainless Steel 304	Brass Nickel Plated
#4 (3.7/3.9 x 9.4/9.6 x 0.38)	1,000	25,000	1080920	1000492
#6 (4.5/4.7 x 10.3/10.5 x 0.38)	1,000	25,000	1080921	1000493
#8 (4.9/5.1 x 12.7/12.9 x 0.38)	1,000	10,000	1080922	1000494
#10 (5.2/5.4 x 14.6/14.8 x 0.38)	1,000	10,000	1080923	1000495

Nylon Washers

Imperial Nylon Washers

Size	Packet Qty	Carton Qty	Code
1/8 x 5/16 x 1/32	1,000	50,000	1000728
5/32 x 3/8 x 1/32	1,000	25,000	1000729
3/16 x 7/16 x 1/32	1,000	25,000	1000730
3/16 x 1/2 x 1/32	1,000	25,000	1000731
1/4 x 1/2 x 1/32	1,000	10,000	1000732
5/16 x 5/8 x 1.0	1,000	10,000	1000733
3/8 x 3/4 x 1/16	1,000	5,000	1000734
1/2 x 1 x 1/16	1,000	5,000	1000735

Metric Nylon Washers

Size	Packet Qty	Carton Qty	Code
M3 x 8.0 x 0.8	1,000	50,000	1000736
M4 x 7.0 x 0.8	1,000	50,000	1000737
M4 x 9.0 x 0.8	1,000	50,000	1080070
M5 x 11.2 x 0.8	1,000	25,000	1000738
M5 x 11.2 x 1.0	1,000	25,000	1080071
M6 x 10.0 x 1.6	1,000	25,000	1080072
M6 x 12.5 x 1.6	1,000	10,000	1080073
M6 x 14.0 x 1.0	1,000	10,000	1000739
M6 x 14.0 x 1.6	1,000	10,000	1080074
M6 x 32.0 x 1.6	200	2,000	1080075
M8 x 16.0 x 1.0	1,000	10,000	1000740
M8 x 17.0 x 1.6	1,000	5,000	1080076
M8 x 24.0 x 2.0	500	2,500	1080077
M10 x 21.0 x 1.5	1,000	5,000	1000741
M10 x 20.0 x 2.0	500	2,500	1080078
M10 x 22.0 x 2.5	500	2,500	1080079
M10 x 30.0 x 2.5	200	1,000	1080080
M10 x 32.0 x 1.6	200	1,000	1080081
M12 x 25.0 x 1.5	1,000	5,000	1000742
M12 x 24.0 x 2.5	500	2,500	1080082
M12 x 40.0 x 3.0	200	1,000	1080083
M16 x 30.0 x 2.0	200	2,000	1008676
M16 x 30.0 x 3.0	200	1,000	1080084
M20 x 37.0 x 3.0	100	500	1008677
M24 x 44.0 x 4.0	100	500	1080085

Automotive Set Screws & Nuts

Hex Head Set Screws 8.8 to JIS B1180

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 16 x 10 A/F x 1.0p	200	1,000	1080300
M6 x 20 x 10 A/F x 1.0p	200	1,000	1080301
M6 x 25 x 10 A/F x 1.0p	200	1,000	1080302
M6 x 30 x 10 A/F x 1.0p	200	1,000	1080303
M6 x 40 x 10 A/F x 1.0p	200	1,000	1080304
M6 x 50 x 10 A/F x 1.0p	200	1,000	1080305

M8 x 16 x 12 A/F x 1.25p	200	1,000	1080306
M8 x 20 x 12 A/F x 1.25p	200	1,000	1080307
M8 x 25 x 12 A/F x 1.25p	200	1,000	1080308
M8 x 30 x 12 A/F x 1.25p	200	1,000	1080309
M8 x 40 x 12 A/F x 1.25p	200	1,000	1080310
M8 x 50 x 12 A/F x 1.25p	150	750	1080311

M10 x 20 x 14 A/F x 1.25p	150	750	1080312
M10 x 25 x 14 A/F x 1.25p	150	750	1080313
M10 x 30 x 14 A/F x 1.25p	150	750	1080314
M10 x 35 x 14 A/F x 1.25p	100	500	1080315
M10 x 40 x 14 A/F x 1.25p	100	500	1080316
M10 x 50 x 14 A/F x 1.25p	100	500	1080317

Hex Head Set Screws Gr5 to ANSI B18.2.1-1996

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 3/4 x 7/16 A/F 20 TPI	200	1,000	1080896
1/4 UNC x 1" x 7/16 A/F 20 TPI	200	1,000	1080897
1/4 UNC x 1 1/4 x 7/16 A/F 20 TPI	200	1,000	1080898
1/4 UNC x 1 1/2 x 7/16 A/F 20 TPI	200	1,000	1080899
1/4 UNC x 2" x 7/16 A/F 20 TPI	200	1,000	1080900

5/16 UNC x 3/4 x 1/2 A/F 18 TPI	200	1,000	1080901
5/16 UNC x 1" x 1/2 A/F 18 TPI	200	1,000	1080902
5/16 UNC x 1 1/4 x 1/2 A/F 18 TPI	200	1,000	1080903
5/16 UNC x 1 1/2 x 1/2 A/F 18 TPI	200	1,000	1080904
5/16 UNC x 2" x 1/2 A/F 18 TPI	200	1,000	1080905

3/8 UNC x 3/4 x 9/16 A/F 16 TPI	150	750	1080906
3/8 UNC x 1" x 9/16 A/F 16 TPI	150	750	1080907
3/8 UNC x 1 1/4 x 9/16 A/F 16 TPI	150	750	1080908
3/8 UNC x 1 1/2 x 9/16 A/F 16 TPI	100	750	1080909
3/8 UNC x 2" x 9/16 A/F 16 TPI	100	750	1080910

Automotive Set Screws & Nuts

Cold Formed Hex Nuts to DIN934

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 10mm A/F x 1.0	200	5,000	1080320
M8 x 12mm A/F x 1.25	200	5,000	1080321
M10 x 14mm A/F x 1.25	200	1,000	1080322

Flanged Hex Nuts Zinc Cr3 to DIN6923

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 10mm A/F x 1.0	200	1,000	1080331
M8 x 12mm A/F x 1.25	200	1,000	1080332
M10 x 14mm A/F x 1.25	200	1,000	1080333
M10 x 17 A/F x 1.5	200	1,000	1080334

Cold Formed Hex Nuts to ANSI B18.2.2-1987

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 7/16 A/F 20 TPI	200	5,000	1080335
5/16 UNC X 1/2 A/F 18 TPI	200	5,000	1080336
3/8 UNC X 9/16 A/F 16 TPI	200	1,000	1080337

Flanged Hex Nuts to IFI-145-2002

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 7/16 A/F 20 TPI	200	5,000	1080338
5/16 UNC X 1/2 A/F 18 TPI	200	5,000	1080339
3/8 UNC X 9/16 A/F 16 TPI	200	1,000	1080341