

**KEENSERTS MS NAS CROSS REFERENCE**

| <b>MILSPEC</b> | <b>NASSPEC</b> | <b>INSERT PART NUMBER</b> | <b>I.D.THREAD</b> | <b>O.D.THREAD</b> | <b>LGTH</b> | <b>MATERIAL</b> |
|----------------|----------------|---------------------------|-------------------|-------------------|-------------|-----------------|
| MS51830-101    | N.A.           | KNCA0256J                 | 2-56              | 8-32              | 0.120       | AISI 303        |
| MS51830-101L   | N.A.           | KNCAL0256J                | 2-56              | 8-32              | 0.120       | AISI 303        |
| MS51830-102    | N.A.           | KNCA0440J                 | 4-40              | 10-32             | 0.170       | AISI 303        |
| MS51830-102L   | N.A.           | KNCAL0440J                | 4-40              | 10-32             | 0.170       | AISI 303        |
| MS51830-103    | N.A.           | KNC0632J                  | 6-32              | 12-28             | 0.170       | AISI 303        |
| MS51830-103L   | N.A.           | KNCL0632J                 | 6-32              | 12-28             | 0.170       | AISI 303        |
| MS51830-104    | N.A.           | KNCA0832J                 | 8-32              | 1/4-28            | 0.220       | AISI 303        |
| MS51830-104L   | N.A.           | KNCAL0832J                | 8-32              | 1/4-28            | 0.220       | AISI 303        |
| N.A.           | NAS1394C08     | KN0832J                   | 8-32              | 1/4-20            | 0.250       | AISI 303        |
| N.A.           | NAS1394C08L    | KNL0832J                  | 8-32              | 1/4-20            | 0.250       | AISI 303        |
| MS51830-105    | N.A.           | KN1024J                   | 10/24             | 5/16-18           | 0.312       | AISI 303        |
| MS51830-105L   | N.A.           | KNL1024J                  | 10-24             | 5/16-18           | 0.312       | AISI 303        |
| MS51830-106    | N.A.           | KN420J                    | 1/4-20            | 3/8-16            | 0.375       | AISI 303        |
| MS51830-106L   | N.A.           | KNL420J                   | 1/4-20            | 3/8-16            | 0.375       | AISI 303        |
| MS51830-107    | N.A.           | KN518J                    | 5/16-18           | 7/16-14           | 0.437       | AISI 303        |
| MS51830-107L   | N.A.           | KNL518J                   | 5/16-18           | 7/16-14           | 0.437       | AISI 303        |
| MS51830-108    | N.A.           | KN616J                    | 3/8-16            | 1/2-13            | 0.500       | AISI 303        |
| MS51830-108L   | N.A.           | KNL616J                   | 3/8-16            | 1/2-13            | 0.500       | AISI 303        |
| MS51830-109    | N.A.           | KN714J                    | 7/16-14           | 9/16-12           | 0.562       | AISI 303        |
| MS51830-109L   | N.A.           | KNL714J                   | 7/16-14           | 9/16-12           | 0.562       | AISI 303        |
| MS51830-110    | N.A.           | KN813J                    | 1/2-13            | 5/8-11            | 0.625       | AISI 303        |
| MS51830-110L   | N.A.           | KNL813J                   | 1/2-13            | 5/8-11            | 0.625       | AISI 303        |
| MS51830-201    | NAS1394C3      | KN1032J                   | 10-32             | 5/16-18           | 0.312       | AISI 303        |
| MS51830-201L   | NAS1394C3L     | KNL1032J                  | 10-32             | 5/16-18           | 0.312       | AISI 303        |
| MS51830-202    | NAS1394C4      | KN428J                    | 1/4-28            | 3/8-16            | 0.375       | AISI 303        |
| MS51830-202L   | NAS1394C4L     | KNL428J                   | 1/4-28            | 3/8-16            | 0.375       | AISI 303        |
| MS51830-203    | NAS1394C5      | KN524J                    | 5/16-24           | 7/16-14           | 0.437       | AISI 303        |
| MS51830-203L   | NAS1394C5L     | KNL524J                   | 5/16-24           | 7/16-14           | 0.437       | AISI 303        |
| MS51830-204    | NAS1394C6      | KN624J                    | 3/8-24            | 1/2-13            | 0.500       | AISI 303        |
| MS51830-204L   | NAS1394C6L     | KNL624J                   | 3/8-24            | 1/2-13            | 0.500       | AISI 303        |
| MS51830-205    | NAS1394C7      | KN720J                    | 7/16-20           | 9/16-12           | 562         | AISI 303        |
| MS51830-205L   | NAS1394C7L     | KNL720J                   | 7/16-20           | 9/16-12           | 0.562       | AISI 303        |
| MS51830-206    | NAS1394C8      | KN820J                    | 1/2-20            | 5/8-11            | 0.625       | AISI 303        |
| MS51830-206L   | NAS1394C8L     | KNL820J                   | 1/2-20            | 5/8-11            | 0.625       | AISI 303        |
| MS51830A-101   | N.A.           | KNCA0256JMXSY             | 2-56              | 8-32              | 0.120       | 4140 Alloy      |
| MS51830A-101L  | N.A.           | KNCAL0256JMXSY            | 2-56              | 8-32              | 0.120       | 4140 Alloy      |
| MS51830A-102   | N.A.           | KNCA0440JMXSY             | 4-40              | 10-32             | 0.170       | 4140 Alloy      |
| MS51830A-102L  | N.A.           | KNCAL0440JMXSY            | 4-40              | 10-32             | 0.170       | 4140 Alloy      |
| MS51830A-103   | N.A.           | KNC0632JMXSY              | 6-32              | 12-28             | 0.170       | 4140 Alloy      |
| MS51830A-103L  | N.A.           | KNCL0632JMXSY             | 6-32              | 12-28             | 0.170       | 4140 Alloy      |
| MS51830A-104   | N.A.           | KNCA0832JMXSY             | 8-32              | 1/4-28            | 0.220       | 4140 Alloy      |
| MS51830A-104L  | N.A.           | KNCAL0832JMXSY            | 8-32              | 1/4-28            | 0.220       | 4140 Alloy      |
| N.A.           | NAS1394-08     | KN0832JMXSZ               | 8-32              | 1/4-20            | 0.250       | 4140 Alloy      |
| N.A.           | NAS1394-08L    | KNL0832JMXSZ              | 8-32              | 1/4-20            | 0.250       | 4140 Alloy      |
| MS51830A-105   | N.A.           | KN1024JMXSY               | 10/24             | 5/16-18           | 0.312       | 4140 Alloy      |
| MS51830A-105L  | N.A.           | KNL1024JMXSY              | 10-24             | 5/16-18           | 0.312       | 4140 Alloy      |
| MS51830A-106   | N.A.           | KN420JMXSY                | 1/4-20            | 3/8-16            | 0.375       | 4140 Alloy      |
| MS51830A-106L  | N.A.           | KNL420JMXSY               | 1/4-20            | 3/8-16            | 0.375       | 4140 Alloy      |
| MS51830A-107   | N.A.           | KN518JMXSY                | 5/16-18           | 7/16-14           | 0.437       | 4140 Alloy      |
| MS51830A-107L  | N.A.           | KNL518JMXSY               | 5/16-18           | 7/16-14           | 0.437       | 4140 Alloy      |
| MS51830A-108   | N.A.           | KN616JMXSY                | 3/8-16            | 1/2-13            | 0.500       | 4140 Alloy      |
| MS51830A-108L  | N.A.           | KNL616JMXSY               | 3/8-16            | 1/2-13            | 0.500       | 4140 Alloy      |
| MS51830A-109   | N.A.           | KN714JMXSY                | 7/16-14           | 9/16-12           | 0.562       | 4140 Alloy      |
| MS51830A-109L  | N.A.           | KNL714JMXSY               | 7/16-14           | 9/16-12           | 0.562       | 4140 Alloy      |
| MS51830A-110   | N.A.           | KN813JMXSY                | 1/2-13            | 5/8-11            | 0.625       | 4140 Alloy      |
| MS51830A-110L  | N.A.           | KNL813JMXSY               | 1/2-13            | 5/8-11            | 0.625       | 4140 Alloy      |

|                |              |              |         |         |       |            |
|----------------|--------------|--------------|---------|---------|-------|------------|
| MS51830A-201   | NAS1394-3    | KN1032JMX**  | 10-32   | 5/16-18 | 0.312 | 4140 Alloy |
| MS51830A-201L  | NAS1394-3L   | KNL1032JMX** | 10-32   | 5/16-18 | 0.312 | 4140 Alloy |
| MS51830A-202   | NAS1394-4    | KN428JMX**   | 1/4-28  | 3/8-16  | 0.375 | 4140 Alloy |
| MS51830A-202L  | NAS1394-4L   | KNL428JMX**  | 1/4-28  | 3/8-16  | 0.375 | 4140 Alloy |
| MS51830A-203   | NAS1394-5    | KN524JMX**   | 5/16-24 | 7/16-14 | 0.437 | 4140 Alloy |
| MS51830A-203L  | NAS1394-5L   | KNL524JMX**  | 5/16-24 | 7/16-14 | 0.437 | 4140 Alloy |
| MS51830A-204   | NAS1394-6    | KN624JMX**   | 3/8-24  | 1/2-13  | 0.500 | 4140 Alloy |
| MS51830A-204L  | NAS1394-6L   | KNL624JMX**  | 3/8-24  | 1/2-13  | 0.500 | 4140 Alloy |
| MS51830A-205   | NAS1394-7    | KN720JMX**   | 7/16-20 | 9/16-12 | 562   | 4140 Alloy |
| MS51830A-205L  | NAS1394-7L   | KNL720JMX**  | 7/16-20 | 9/16-12 | 0.562 | 4140 Alloy |
| MS51830A-206   | NAS1394-8    | KN820JMX**   | 1/2-20  | 5/8-11  | 0.625 | 4140 Alloy |
| MS51830A-206L  | NAS1394-8L   | KNL820JMX**  | 1/2-20  | 5/8-11  | 0.625 | 4140 Alloy |
| MS51830CA-101  | N.A.         | KNCA0256JT   | 2-56    | 8-32    | 0.120 | A286       |
| MS51830CA-101L | N.A.         | KNCAL0256JT  | 2-56    | 8-32    | 0.120 | A286       |
| MS51830CA-102  | N.A.         | KNCA0440JT   | 4-40    | 10-32   | 0.170 | A286       |
| MS51830CA-102L | N.A.         | KNCAL0440JT  | 4-40    | 10-32   | 0.170 | A286       |
| MS51830CA-103  | N.A.         | KNC0632JT    | 6-32    | 12-28   | 0.170 | A286       |
| MS51830CA-103L | N.A.         | KNCL0632JT   | 6-32    | 12-28   | 0.170 | A286       |
| MS51830CA-104  | N.A.         | KNCA0832JT   | 8-32    | 1/4-28  | 0.220 | A286       |
| MS51830CA-104L | N.A.         | KNCAL0832JT  | 8-32    | 1/4-28  | 0.220 | A286       |
| N.A.           | NAS1394CA08  | KN0832JT     | 8-32    | 1/4-20  | 0.250 | A286       |
| N.A.           | NAS1394CA08L | KNL0832JT    | 8-32    | 1/4-20  | 0.250 | A286       |
| MS51830CA-105  | N.A.         | KN1024JT     | 10/24   | 5/16-18 | 0.312 | A286       |
| MS51830CA-105L | N.A.         | KNL1024JT    | 10-24   | 5/16-18 | 0.312 | A286       |
| MS51830CA-106  | N.A.         | KN420JT      | 1/4-20  | 3/8-16  | 0.375 | A286       |
| MS51830CA-106L | N.A.         | KNL420JT     | 1/4-20  | 3/8-16  | 0.375 | A286       |
| MS51830CA-107  | N.A.         | KN518JT      | 5/16-18 | 7/16-14 | 0.437 | A286       |
| MS51830CA-107L | N.A.         | KNL518JT     | 5/16-18 | 7/16-14 | 0.437 | A286       |
| MS51830CA-108  | N.A.         | KN616JT      | 3/8-16  | 1/2-13  | 0.500 | A286       |
| MS51830CA-108L | N.A.         | KNL616JT     | 3/8-16  | 1/2-13  | 0.500 | A286       |
| MS51830CA-109  | N.A.         | KN714JT      | 7/16-14 | 9/16-12 | 0.562 | A286       |
| MS51830CA-109L | N.A.         | KNL714JT     | 7/16-14 | 9/16-12 | 0.562 | A286       |
| MS51830CA-110  | N.A.         | KN813JT      | 1/2-13  | 5/8-11  | 0.625 | A286       |
| MS51830CA-110L | N.A.         | KNL813JT     | 1/2-13  | 5/8-11  | 0.625 | A286       |
| MS51830CA-201  | NAS1394CA3   | KN1032JT     | 10-32   | 5/16-18 | 0.312 | A286       |
| MS51830CA-201L | NAS1394CA3L  | KNL1032JT    | 10-32   | 5/16-18 | 0.312 | A286       |
| MS51830CA-202  | NAS1394CA4   | KN428JT      | 1/4-28  | 3/8-16  | 0.375 | A286       |
| MS51830CA-202L | NAS1394CA4L  | KNL428JT     | 1/4-28  | 3/8-16  | 0.375 | A286       |
| MS51830CA-203  | NAS1394CA5   | KN524JT      | 5/16-24 | 7/16-14 | 0.437 | A286       |
| MS51830CA-203L | NAS1394CA5L  | KNL524JT     | 5/16-24 | 7/16-14 | 0.437 | A286       |
| MS51830CA-204  | NAS1394CA6   | KN624JT      | 3/8-24  | 1/2-13  | 0.500 | A286       |
| MS51830CA-204L | NAS1394CA6L  | KNL624JT     | 3/8-24  | 1/2-13  | 0.500 | A286       |
| MS51830CA-205  | NAS1394CA7   | KN720JT      | 7/16-20 | 9/16-12 | 562   | A286       |
| MS51830CA-205L | NAS1394CA7L  | KNL720JT     | 7/16-20 | 9/16-12 | 0.562 | A286       |
| MS51830CA-206  | NAS1394CA8   | KN820JT      | 1/2-20  | 5/8-11  | 0.625 | A286       |
| MS51830CA-206L | NAS1394CA8L  | KNL820JT     | 1/2-20  | 5/8-11  | 0.625 | A286       |
| N.A.           | NAS1395C04   | KNH0440J     | 4-40    | 12-24   | 0.250 | AISI 303   |
| N.A.           | NAS1395C04L  | KNHL0440J    | 4-40    | 12-24   | 0.250 | AISI 303   |
| N.A.           | NAS1395C06   | KNH0632J     | 6-32    | 1/4-20  | 0.250 | AISI 303   |
| N.A.           | NAS1395C06L  | KNHL0632J    | 6-32    | 1/4-20  | 0.250 | AISI 303   |
| N.A.           | NAS1395C08   | KNH0832J     | 8-32    | 5/16-18 | 0.312 | AISI 303   |
| N.A.           | NAS1395C08L  | KNHL0832J    | 8-32    | 5/16-18 | 0.312 | AISI 303   |
| MS51831-101    | N.A.         | KNH1024J     | 10/24   | 3/8-16  | 0.312 | AISI 303   |
| MS51831-101L   | N.A.         | KNHL1024J    | 10-24   | 3/8-16  | 0.312 | AISI 303   |
| MS51831-102    | N.A.         | KHN420J      | 1/4-20  | 7/16-14 | 0.375 | AISI 303   |
| MS51831-102L   | N.A.         | KNHL420J     | 1/4-20  | 7/16-14 | 0.375 | AISI 303   |
| MS51831-103    | N.A.         | KHNH518J     | 5/16-18 | 1/2-13  | 0.437 | AISI 303   |
| MS51831-103L   | N.A.         | KNHL518J     | 5/16-18 | 1/2-13  | 0.437 | AISI 303   |

|              |             |               |         |          |       |            |
|--------------|-------------|---------------|---------|----------|-------|------------|
| MS51831-104  | N.A.        | KNH616J       | 3/8-16  | 9/16-12  | 0.500 | AISI 303   |
| MS51831-104L | N.A.        | KNHL616J      | 3/8-16  | 9/16-12  | 0.500 | AISI 303   |
| MS51831-105  | N.A.        | KNH714J       | 7/16-14 | 5/8-11   | 0.625 | AISI 303   |
| MS51831-105L | N.A.        | KNHL714J      | 7/16-14 | 5/8-11   | 0.625 | AISI 303   |
| MS51831-106  | N.A.        | KNH813J       | 1/2-13  | 11/16-11 | 0.688 | AISI 303   |
| MS51831-106L | N.A.        | KNHL813J      | 1/2-13  | 11/16-11 | 0.688 | AISI 303   |
| MS51831-107  | N.A.        | KNH912J       | 9/16-12 | 13/16-16 | 0.812 | AISI 303   |
| MS51831-107L | N.A.        | KNHL912J      | 9/16-12 | 13/16-16 | 0.812 | AISI 303   |
| MS51831-108  | N.A.        | KNH1011J      | 5/8-11  | 7/8-14   | 0.875 | AISI 303   |
| MS51831-108L | N.A.        | KNHL1011J     | 5/8-11  | 7/8-14   | 0.875 | AISI 303   |
| MS51831-109  | N.A.        | KNH1210J      | 3/4-10  | 1-1/8-12 | 1125  | AISI 303   |
| MS51831-109L | N.A.        | KNHL1210J     | 3/4-10  | 1-1/8-12 | 1250  | AISI 303   |
| MS51831-110  | N.A.        | KNH1409J      | 7/8-9   | 1-1/4-12 | 1250  | AISI 303   |
| MS51831-110L | N.A.        | KNHL1409J     | 7/8-9   | 1-1/4-12 | 1375  | AISI 303   |
| MS51831-111  | N.A.        | KNH1608J      | 1-8     | 1-3/8-12 | 1375  | AISI 303   |
| MS51831-111L | N.A.        | KNHL1608J     | 1-8     | 1-3/8-12 | 1500  | AISI 303   |
| MS51831-201  | NAS1395C3   | KNH1032J      | 10-32   | 3/8-16   | 0.312 | AISI 303   |
| MS51831-201L | NAS1395C3L  | KNHL1032J     | 10-32   | 3/8-16   | 0.312 | AISI 303   |
| MS51831-202  | NAS1395C4   | KNH428J       | 1/4-28  | 7/16-14  | 0.375 | AISI 303   |
| MS51831-202L | NAS1395C4L  | KNHL428J      | 1/4-28  | 7/16-14  | 0.375 | AISI 303   |
| MS51831-203  | NAS1395C5   | KNH524J       | 5/16-24 | 1/2-13   | 0.437 | AISI 303   |
| MS51831-203L | NAS1395C5L  | KNHL524J      | 5/16-24 | 1/2-13   | 0.437 | AISI 303   |
| MS51831-204  | NAS1395C6   | KNH624JK      | 3/8-24  | 9/16-12  | 0.500 | AISI 303   |
| MS51831-204L | NAS1395C6L  | KNHL624J      | 3/8-24  | 9/16-12  | 0.500 | AISI 303   |
| MS51831-205  | NAS1395C7   | KNH720J       | 7/16-20 | 5/8-11   | 0.625 | AISI 303   |
| MS51831-205L | NAS1395C7L  | KNHL720J      | 7/16-20 | 5/8-11   | 0.625 | AISI 303   |
| MS51831-206  | NAS1395C8   | KNH820J       | 1/2-20  | 11/16-11 | 0.688 | AISI 303   |
| MS51831-206L | NAS1395C8L  | KNHL820J      | 1/2-20  | 11/16-11 | 0.688 | AISI 303   |
| MS51831-207  | NAS1395C9   | KNH918J       | 9/16-18 | 13/16-16 | 0.812 | AISI 303   |
| MS51831-208  | NAS1395C10  | KNH1018J      | 5/8-18  | 7/8-14   | 0.875 | AISI 303   |
| MS51831-208L | NAS1395C10L | KNHL1018J     | 5/8-18  | 7/8-14   | 0.875 | AISI 303   |
| MS51831-209  | N.A.        | KNH1216J      | 3/4-16  | 1-1/8-12 | 1125  | AISI 303   |
| MS51831-209L | N.A.        | KNHL1216J     | 3/4-16  | 1-1/8-12 | 1250  | AISI 303   |
| MS51831-210  | N.A.        | KNH1414J      | 7/8-14  | 1-1/4-12 | 1250  | AISI 303   |
| MS51831-210L | N.A.        | KNHL1414J     | 7/8-14  | 1-1/4-12 | 1375  | AISI 303   |
| MS51831-211  | N.A.        | KNH1612J      | 1-12    | 1-3/8-12 | 1375  | AISI 303   |
| MS51831-211L | N.A.        | KNHL1612J     | 1-12    | 1-3/8-12 | 1500  | AISI 303   |
| N.A.         | NAS1395-04  | KNH0440JMXSZ  | 4-40    | 12-24    | 0.250 | 4140 Alloy |
| N.A.         | NAS1395-04L | KNHL0440JMXSZ | 4-40    | 12-24    | 0.250 | 4140 Alloy |
| N.A.         | NAS1395-06  | KNH0632JMXSZ  | 6-32    | 1/4-20   | 0.250 | 4140 Alloy |
| N.A.         | NAS1395-06L | KNHL0632JMXSZ | 6-32    | 1/4-20   | 0.250 | 4140 Alloy |
| N.A.         | NAS1395-08  | KNH0832JMXSZ  | 8-32    | 5/16-18  | 0.312 | 4140 Alloy |
| N.A.         | NAS1395-08L | KNHL0832JMXSZ | 8-32    | 5/16-18  | 0.312 | 4140 Alloy |
| MS51831A101  | N.A.        | KNH1024JMXSY  | 10/24   | 3/8-16   | 0.312 | 4140 Alloy |
| MS51831A101L | N.A.        | KNHL1024JMXSY | 10-24   | 3/8-16   | 0.312 | 4140 Alloy |
| MS51831A102  | N.A.        | KHN420JMXSY   | 1/4-20  | 7/16-14  | 0.375 | 4140 Alloy |
| MS51831A102L | N.A.        | KNHL420JMXSY  | 1/4-20  | 7/16-14  | 0.375 | 4140 Alloy |
| MS51831A103  | N.A.        | KHNH518JMXSY  | 5/16-18 | 1/2-13   | 0.437 | 4140 Alloy |
| MS51831A103L | N.A.        | KNHL518JMXSY  | 5/16-18 | 1/2-13   | 0.437 | 4140 Alloy |
| MS51831A104  | N.A.        | KNH616JMXSY   | 3/8-16  | 9/16-12  | 0.500 | 4140 Alloy |
| MS51831A104L | N.A.        | KNHL616JMXSY  | 3/8-16  | 9/16-12  | 0.500 | 4140 Alloy |
| MS51831A105  | N.A.        | KNH714JMXSY   | 7/16-14 | 5/8-11   | 0.625 | 4140 Alloy |
| MS51831A105L | N.A.        | KNHL714JMXSY  | 7/16-14 | 5/8-11   | 0.625 | 4140 Alloy |
| MS51831A106  | N.A.        | KNH813JMXSY   | 1/2-13  | 11/16-11 | 0.688 | 4140 Alloy |
| MS51831A106L | N.A.        | KNHL813JMXSY  | 1/2-13  | 11/16-11 | 0.688 | 4140 Alloy |
| MS51831A107  | N.A.        | KNH912JMXSY   | 9/16-12 | 13/16-16 | 0.812 | 4140 Alloy |
| MS51831A107L | N.A.        | KNHL912JMXSY  | 9/16-12 | 13/16-16 | 0.812 | 4140 Alloy |
| MS51831A108  | N.A.        | KNH1011JMXSY  | 5/8-11  | 7/8-14   | 0.875 | 4140 Alloy |

|               |              |               |         |          |       |            |
|---------------|--------------|---------------|---------|----------|-------|------------|
| MS51831A108L  | N.A.         | KNHL1011JMXSY | 5/8-11  | 7/8-14   | 0.875 | 4140 Alloy |
| MS51831A109   | N.A.         | KNH1210JMXSY  | 3/4-10  | 1-1/8-12 | 1125  | 4140 Alloy |
| MS51831A109L  | N.A.         | KNHL1210JMXSY | 3/4-10  | 1-1/8-12 | 1250  | 4140 Alloy |
| MS51831A110   | N.A.         | KNH1409JMXSY  | 7/8-9   | 1-1/4-12 | 1250  | 4140 Alloy |
| MS51831A110L  | N.A.         | KNHL1409JMXSY | 7/8-9   | 1-1/4-12 | 1375  | 4140 Alloy |
| MS51831A111   | N.A.         | KNH1608JMXSY  | 1-8     | 1-3/8-12 | 1375  | 4140 Alloy |
| MS51831A111L  | N.A.         | KNHL1608JMXSY | 1-8     | 1-3/8-12 | 1500  | 4140 Alloy |
| MS51831A201   | NAS1395-3    | KNH1032JMX**  | 10-32   | 3/8-16   | 0.312 | 4140 Alloy |
| MS51831A201L  | NAS1395-3L   | KNHL1032JMX** | 10-32   | 3/8-16   | 0.312 | 4140 Alloy |
| MS51831A202   | NAS1395-4    | KNH428JMX**   | 1/4-28  | 7/16-14  | 0.375 | 4140 Alloy |
| MS51831A202L  | NAS1395-4L   | KNHL428JMX**  | 1/4-28  | 7/16-14  | 0.375 | 4140 Alloy |
| MS51831A203   | NAS1395-5    | KNH524JMX**   | 5/16-24 | 1/2-13   | 0.437 | 4140 Alloy |
| MS51831A203L  | NAS1395-5L   | KNHL524JMX**  | 5/16-24 | 1/2-13   | 0.437 | 4140 Alloy |
| MS51831A204   | NAS1395-6    | KNH624JMX**   | 3/8-24  | 9/16-12  | 0.500 | 4140 Alloy |
| MS51831A204L  | NAS1395-6L   | KNHL624JMX**  | 3/8-24  | 9/16-12  | 0.500 | 4140 Alloy |
| MS51831A205   | NAS1395-7    | KNH720JMX**   | 7/16-20 | 5/8-11   | 0.625 | 4140 Alloy |
| MS51831A205L  | NAS1395-7L   | KNHL720JMX**  | 7/16-20 | 5/8-11   | 0.625 | 4140 Alloy |
| MS51831A206   | NAS1395-8    | KNH820JMX**   | 1/2-20  | 11/16-11 | 0.688 | 4140 Alloy |
| MS51831A206L  | NAS1395-8L   | KNHL820JMX**  | 1/2-20  | 11/16-11 | 0.688 | 4140 Alloy |
| MS51831A207   | NAS1395-9    | KNH918JMX**   | 9/16-18 | 13/16-16 | 0.812 | 4140 Alloy |
| MS51831A208L  | NAS1395-10L  | KNHL1018JMX** | 5/8-18  | 7/8-14   | 0.875 | 4140 Alloy |
| MS51831A209   | NAS1395-11   | KNH1216JMX**  | 3/4-16  | 1-1/8-12 | 1125  | 4140 Alloy |
| MS51831A209L  | NAS1395-11L  | KNHL1216JMX** | 3/4-16  | 1-1/8-12 | 1250  | 4140 Alloy |
| MS51831A210   | N.A.         | KNH1414JMXSY  | 7/8-14  | 1-1/4-12 | 1250  | 4140 Alloy |
| MS51831A210L  | N.A.         | KNHL1414JMXSY | 7/8-14  | 1-1/4-12 | 1375  | 4140 Alloy |
| MS51831A211   | N.A.         | KNH1612JMXSY  | 1-12    | 1-3/8-12 | 1375  | 4140 Alloy |
| MS51831A211L  | N.A.         | KNHL1612JMXSY | 1-12    | 1-3/8-12 | 1500  | 4140 Alloy |
| N.A.          | NAS1395CA04  | KNH0440JT     | 4-40    | 12-24    | 0.250 | A286       |
| N.A.          | NAS1395CA04L | KNHL0440JT    | 4-40    | 12-24    | 0.250 | A286       |
| N.A.          | NAS1395CA06  | KNH0632JT     | 6-32    | 1/4-20   | 0.250 | A286       |
| N.A.          | NAS1395CA06L | KNHL0632JT    | 6-32    | 1/4-20   | 0.250 | A286       |
| N.A.          | NAS1395CA08  | KNH0832JT     | 8-32    | 5/16-18  | 0.312 | A286       |
| N.A.          | NAS1395CA08L | KNHL0832JT    | 8-32    | 5/16-18  | 0.312 | A286       |
| MS51831CA101  | N.A.         | KNH1024JT     | 10/24   | 3/8-16   | 0.312 | A286       |
| MS51831CA101L | N.A.         | KNHL1024JT    | 10-24   | 3/8-16   | 0.312 | A286       |
| MS51831CA102  | N.A.         | KHN420JT      | 1/4-20  | 7/16-14  | 0.375 | A286       |
| MS51831CA102L | N.A.         | KNHL420JT     | 1/4-20  | 7/16-14  | 0.375 | A286       |
| MS51831CA103  | N.A.         | KHNH518JT     | 5/16-18 | 1/2-13   | 0.437 | A286       |
| MS51831CA103L | N.A.         | KNHL518JT     | 5/16-18 | 1/2-13   | 0.437 | A286       |
| MS51831CA104  | N.A.         | KNH616JT      | 3/8-16  | 9/16-12  | 0.500 | A286       |
| MS51831CA104L | N.A.         | KNHL616JT     | 3/8-16  | 9/16-12  | 0.500 | A286       |
| MS51831CA105  | N.A.         | KNH714JT      | 7/16-14 | 5/8-11   | 0.625 | A286       |
| MS51831CA105L | N.A.         | KNHL714JT     | 7/16-14 | 5/8-11   | 0.625 | A286       |
| MS51831CA106  | N.A.         | KNH813JT      | 1/2-13  | 11/16-11 | 0.688 | A286       |
| MS51831CA106L | N.A.         | KNHL813JT     | 1/2-13  | 11/16-11 | 0.688 | A286       |
| MS51831CA107  | N.A.         | KNH912JT      | 9/16-12 | 13/16-16 | 0.812 | A286       |
| MS51831CA107L | N.A.         | KNHL912JT     | 9/16-12 | 13/16-16 | 0.812 | A286       |
| MS51831CA108  | N.A.         | KNH1011JT     | 5/8-11  | 7/8-14   | 0.875 | A286       |
| MS51831CA108L | N.A.         | KNHL1011JT    | 5/8-11  | 7/8-14   | 0.875 | A286       |
| MS51831CA109  | N.A.         | KNH1210JT     | 3/4-10  | 1-1/8-12 | 1125  | A286       |
| MS51831CA109L | N.A.         | KNHL1210JT    | 3/4-10  | 1-1/8-12 | 1250  | A286       |
| MS51831CA110  | N.A.         | KNH1409JT     | 7/8-9   | 1-1/4-12 | 1250  | A286       |
| MS51831CA110L | N.A.         | KNHL1409JT    | 7/8-9   | 1-1/4-12 | 1375  | A286       |
| MS51831CA111  | N.A.         | KNH1608JT     | 1-8     | 1-3/8-12 | 1375  | A286       |
| MS51831CA111L | N.A.         | KNHL1608JT    | 1-8     | 1-3/8-12 | 1500  | A286       |
| MS51831CA201  | NAS1395CA3   | KNH1032JT     | 10-32   | 3/8-16   | 0.312 | A286       |
| MS51831CA201L | NAS1395CA3L  | KNHL1032JT    | 10-32   | 3/8-16   | 0.312 | A286       |
| MS51831CA202  | NAS1395CA4   | KNH428JT      | 1/4-28  | 7/16-14  | 0.375 | A286       |

|               |              |              |         |          |       |          |
|---------------|--------------|--------------|---------|----------|-------|----------|
| MS51831CA202L | NAS1395CA4L  | KNHL428JT    | 1/4-28  | 7/16-14  | 0.375 | A286     |
| MS51831CA203  | NAS1395CA5   | KNH524JT     | 5/16-24 | 1/2-13   | 0.437 | A286     |
| MS51831CA203L | NAS1395CA5L  | KNHL524JT    | 5/16-24 | 1/2-13   | 0.437 | A286     |
| MS51831CA204  | NAS1395CA6   | KNH624JT     | 3/8-24  | 9/16-12  | 0.500 | A286     |
| MS51831CA204L | NAS1395CA6L  | KNHL624JT    | 3/8-24  | 9/16-12  | 0.500 | A286     |
| MS51831CA205  | NAS1395CA7   | KNH720JT     | 7/16-20 | 5/8-11   | 0.625 | A286     |
| MS51831CA205L | NAS1395CA7L  | KNHL720JT    | 7/16-20 | 5/8-11   | 0.625 | A286     |
| MS51831CA206  | NAS1395CA8   | KNH820JT     | 1/2-20  | 11/16-11 | 0.688 | A286     |
| MS51831CA206L | NAS1395CA8L  | KNHL820JT    | 1/2-20  | 11/16-11 | 0.688 | A286     |
| MS51831CA207  | NAS1395CA9   | KNH918JT     | 9/16-18 | 13/16-16 | 0.812 | A286     |
| MS51831CA207L | NAS1395CA9L  | KNHL918JT    | 9/16-18 | 13/16-16 | 0.812 | A286     |
| MS51831CA208  | NAS1395CA10  | KNH1018JT    | 5/8-18  | 7/8-14   | 0.875 | A286     |
| MS51831CA208L | NAS1395CA10L | KNHL1018JT   | 5/8-18  | 7/8-14   | 0.875 | A286     |
| MS51831CA209  | N.A.         | KNH1216JT    | 3/4-16  | 1-1/8-12 | 1125  | A286     |
| MS51831CA209L | N.A.         | KNHL1216JT   | 3/4-16  | 1-1/8-12 | 1250  | A286     |
| MS51831CA210  | N.A.         | KNH1414JT    | 7/8-14  | 1-1/4-12 | 1250  | A286     |
| MS51831CA210L | N.A.         | KNHL1414JT   | 7/8-14  | 1-1/4-12 | 1375  | A286     |
| MS51831CA211  | N.A.         | KNH1612JT    | 1-12    | 1-3/8-12 | 1375  | A286     |
| MS51831CA211L | N.A.         | KNHL1612JT   | 1-12    | 1-3/8-12 | 1500  | A286     |
| MS51832-101   | N.A.         | KNHXXH1024J  | 10-24   | 7/16-14  | 0.312 | AISI 303 |
| MS51832-101L  | N.A.         | KNHXXHL1024J | 10-24   | 7/16-14  | 0.312 | AISI 303 |
| MS51832-102   | N.A.         | KNHXXH420J   | 1/4-20  | 1/2-13   | 0.375 | AISI 303 |
| MS51832-102L  | N.A.         | KNHXXHL420J  | 1/4-20  | 1/2-13   | 0.375 | AISI 303 |
| MS51832-103   | N.A.         | KNHXXH518J   | 5/16-18 | 9/16-12  | 0.437 | AISI 303 |
| MS51832-103L  | N.A.         | KNHXXHL518J  | 5/16-18 | 9/16-12  | 0.437 | AISI 303 |
| MS51832-104   | N.A.         | KNHXXH616J   | 3/8-16  | 5/8-11   | 0.500 | AISI 303 |
| MS51832-104L  | N.A.         | KNHXXHL616J  | 3/8-16  | 5/8-11   | 0.500 | AISI 303 |
| MS51832-105   | N.A.         | KNHXXH714J   | 7/16-14 | 11/16-11 | 0.625 | AISI 303 |
| MS51832-105L  | N.A.         | KNHXXHL714J  | 7/16-14 | 11/16-11 | 0.625 | AISI 303 |
| MS51832-106   | N.A.         | KNHXXH813J   | 1/2-13  | 13/16-16 | 0.688 | AISI 303 |
| MS51832-106L  | N.A.         | KNHXXHL813J  | 1/2-13  | 13/16-16 | 0.688 | AISI 303 |
| MS51832-107   | N.A.         | KNHXXH912J   | 9/16-12 | 7/8-14   | 0.812 | AISI 303 |
| MS51832-107L  | N.A.         | KNHXXHL912J  | 9/16-12 | 7/8-14   | 0.812 | AISI 303 |
| MS51832-108   | N.A.         | KNHXXH1011J  | 5/8-11  | 1-1/8-12 | 0.875 | AISI 303 |
| MS51832-108L  | N.A.         | KNHXXHL1011J | 5/8-11  | 1-1/8-12 | 0.875 | AISI 303 |
| MS51832-109   | N.A.         | KNHXXH1210J  | 3/4-10  | 1-1/4-12 | 1125  | AISI 303 |
| MS51832-109L  | N.A.         | KNHXXHL1210J | 3/4-10  | 1-1/4-12 | 1250  | AISI 303 |
| MS51832-110   | N.A.         | KNHXXH1409J  | 7/8-9   | 1-3/8-12 | 1250  | AISI 303 |
| MS51832-110L  | N.A.         | KNHXXHL1409J | 7/8-9   | 1-3/8-12 | 1375  | AISI 303 |
| MS51832-111   | N.A.         | KNHXXH1608J  | 1-8     | 1-1/2-12 | 1375  | AISI 303 |
| MS51832-111L  | N.A.         | KNHXXHL1608J | 1-8     | 1-1/2-12 | 1500  | AISI 303 |
| MS51832-201   | N.A.         | KNHXXH1032J  | 10-32   | 7/16-14  | 0.312 | AISI 303 |
| MS51832-201L  | N.A.         | KNHXXHL1032J | 10-32   | 7/16-14  | 0.312 | AISI 303 |
| MS51832-202   | N.A.         | KNHXXH428J   | 1/4-28  | 1/2-13   | 0.375 | AISI 303 |
| MS51832-202L  | N.A.         | KNHXXHL428J  | 1/4-28  | 1/2-13   | 0.375 | AISI 303 |
| MS51832-203   | N.A.         | KNHXXH524J   | 5/16-24 | 9/16-12  | 0.437 | AISI 303 |
| MS51832-203L  | N.A.         | KNHXXHL524J  | 5/16-24 | 9/16-12  | 0.437 | AISI 303 |
| MS51832-204   | N.A.         | KNHXXH624J   | 3/8-24  | 5/8-11   | 0.500 | AISI 303 |
| MS51832-204L  | N.A.         | KNHXXHL624J  | 3/8-24  | 5/8-11   | 0.500 | AISI 303 |
| MS51832-205   | N.A.         | KNHXXH720J   | 7/16-20 | 11/16-11 | 0.625 | AISI 303 |
| MS51832-205L  | N.A.         | KNHXXHL720J  | 7/16-20 | 11/16-11 | 0.625 | AISI 303 |
| MS51832-206   | N.A.         | KNHXXH820J   | 1/2-20  | 13/16-16 | 0.688 | AISI 303 |
| MS51832-206L  | N.A.         | KNHXXHL820J  | 1/2-20  | 13/16-16 | 0.688 | AISI 303 |
| MS51832-207   | N.A.         | KNHXXH918J   | 9/16-18 | 7/8-14   | 0.812 | AISI 303 |
| MS51832-207L  | N.A.         | KNHXXHL918J  | 9/16-18 | 7/8-14   | 0.812 | AISI 303 |
| MS51832-208   | N.A.         | KNHXXH1018J  | 5/8-18  | 1-1/8-12 | 0.875 | AISI 303 |
| MS51832-208L  | N.A.         | KNHXXHL1018J | 5/8-18  | 1-1/8-12 | 0.875 | AISI 303 |
| MS51832-209   | N.A.         | KNHXXH1216J  | 3/4-16  | 1-1/4-12 | 1125  | AISI 303 |

|              |      |                |         |          |       |            |
|--------------|------|----------------|---------|----------|-------|------------|
| MS51832-209L | N.A. | KNHXHL1216J    | 3/4-16  | 1/1/4-12 | 1125  | AISI 303   |
| MS51832-210  | N.A. | KNHXXH1414J    | 7/8-14  | 1-3/8-12 | 1250  | AISI 303   |
| MS51832-210L | N.A. | KNHXHL1414J    | 7/8-14  | 1-3/8-12 | 1375  | AISI 303   |
| MS51832-211  | N.A. | KNHXXH1612J    | 1-12    | 1-1/2-12 | 1375  | AISI 303   |
| MS51832-211L | N.A. | KNHXHL1612J    | 1-12    | 1-1/2-12 | 1500  | AISI 303   |
| MS51832A101  | N.A. | KNHXXH1024JMSY | 10-24   | 7/16-14  | 0.312 | 4140 Alloy |
| MS51832A101L | N.A. | KNHXHL1024JMSY | 10-24   | 7/16-14  | 0.312 | 4140 Alloy |
| MS51832A102  | N.A. | KNHXXH420JMSY  | 1/4-20  | 1/2-13   | 0.375 | 4140 Alloy |
| MS51832A102L | N.A. | KNHXHL420JMSY  | 1/4-20  | 1/2-13   | 0.375 | 4140 Alloy |
| MS51832A103  | N.A. | KNHXXH518JMSY  | 5/16-18 | 9/16-12  | 0.437 | 4140 Alloy |
| MS51832A103L | N.A. | KNHXHL518JMSY  | 5/16-18 | 9/16-12  | 0.437 | 4140 Alloy |
| MS51832A104  | N.A. | KNHXXH616JMSY  | 3/8-16  | 5/8-11   | 0.500 | 4140 Alloy |
| MS51832A104L | N.A. | KNHXHL616JMSY  | 3/8-16  | 5/8-11   | 0.500 | 4140 Alloy |
| MS51832A105  | N.A. | KNHXXH714JMSY  | 7/16-14 | 11/16-11 | 0.625 | 4140 Alloy |
| MS51832A105L | N.A. | KNHXHL714JMSY  | 7/16-14 | 11/16-11 | 0.625 | 4140 Alloy |
| MS51832A106  | N.A. | KNHXXH813JMSY  | 1/2-13  | 13/16-16 | 0.688 | 4140 Alloy |
| MS51832A106L | N.A. | KNHXHL813JMSY  | 1/2-13  | 13/16-16 | 0.688 | 4140 Alloy |
| MS51832A107  | N.A. | KNHXXH912JMSY  | 9/16-12 | 7/8-14   | 0.812 | 4140 Alloy |
| MS51832A107L | N.A. | KNHXHL912JMSY  | 9/16-12 | 7/8-14   | 0.812 | 4140 Alloy |
| MS51832A108  | N.A. | KNHXXH1011JMSY | 5/8-11  | 1-1/8-12 | 0.875 | 4140 Alloy |
| MS51832A108L | N.A. | KNHXHL1011JMSY | 5/8-11  | 1-1/8-12 | 0.875 | 4140 Alloy |
| MS51832A109  | N.A. | KNHXXH1210JMSY | 3/4-10  | 1-1/4-12 | 1125  | 4140 Alloy |
| MS51832A109L | N.A. | KNHXHL1210JMSY | 3/4-10  | 1-1/4-12 | 1250  | 4140 Alloy |
| MS51832A110  | N.A. | KNHXXH1409JMSY | 7/8-9   | 1-3/8-12 | 1250  | 4140 Alloy |
| MS51832A110L | N.A. | KNHXHL1409JMSY | 7/8-9   | 1-3/8-12 | 1375  | 4140 Alloy |
| MS51832A111  | N.A. | KNHXXH1608JMSY | 1-8     | 1-1/2-12 | 1375  | 4140 Alloy |
| MS51832A111L | N.A. | KNHXHL1608JMSY | 1-8     | 1-1/2-12 | 1500  | 4140 Alloy |
| MS51832A201  | N.A. | KNHXXH1032JMSY | 10-32   | 7/16-14  | 0.312 | 4140 Alloy |
| MS51832A201L | N.A. | KNHXHL1032JMSY | 10-32   | 7/16-14  | 0.312 | 4140 Alloy |
| MS51832A202  | N.A. | KNHXXH428JMSY  | 1/4-28  | 1/2-13   | 0.375 | 4140 Alloy |
| MS51832A202L | N.A. | KNHXHL428JMSY  | 1/4-28  | 1/2-13   | 0.375 | 4140 Alloy |
| MS51832A203  | N.A. | KNHXXH524JMSY  | 5/16-24 | 9/16-12  | 0.437 | 4140 Alloy |
| MS51832A203L | N.A. | KNHXHL524JMSY  | 5/16-24 | 9/16-12  | 0.437 | 4140 Alloy |
| MS51832A204  | N.A. | KNHXXH624JMSY  | 3/8-24  | 5/8-11   | 0.500 | 4140 Alloy |
| MS51832A204L | N.A. | KNHXHL624JMSY  | 3/8-24  | 5/8-11   | 0.500 | 4140 Alloy |
| MS51832A205  | N.A. | KNHXXH720JMSY  | 7/16-20 | 11/16-11 | 0.625 | 4140 Alloy |
| MS51832A205L | N.A. | KNHXHL720JMSY  | 7/16-20 | 11/16-11 | 0.625 | 4140 Alloy |
| MS51832A206  | N.A. | KNHXXH820JMSY  | 1/2-20  | 13/16-16 | 0.688 | 4140 Alloy |
| MS51832A206L | N.A. | KNHXHL820JMSY  | 1/2-20  | 13/16-16 | 0.688 | 4140 Alloy |
| MS51832A207  | N.A. | KNHXXH918JMSY  | 9/16-18 | 7/8-14   | 0.812 | 4140 Alloy |
| MS51832A207L | N.A. | KNHXHL918JMSY  | 9/16-18 | 7/8-14   | 0.812 | 4140 Alloy |
| MS51832A208  | N.A. | KNHXXH1018JMSY | 5/8-18  | 1-1/8-12 | 0.875 | 4140 Alloy |
| MS51832A208L | N.A. | KNHXHL1018JMSY | 5/8-18  | 1-1/8-12 | 0.875 | 4140 Alloy |
| MS51832A209  | N.A. | KNHXXH1216JMSY | 3/4-16  | 1/1/4-12 | 1125  | 4140 Alloy |
| MS51832A209L | N.A. | KNHXHL1216JMSY | 3/4-16  | 1/1/4-12 | 1125  | 4140 Alloy |
| MS51832A210  | N.A. | KNHXXH1414JMSY | 7/8-14  | 1-3/8-12 | 1250  | 4140 Alloy |
| MS51832A210L | N.A. | KNHXHL1414JMSY | 7/8-14  | 1-3/8-12 | 1375  | 4140 Alloy |
| MS51832A211  | N.A. | KNHXXH1612JMSY | 1-12    | 1-1/2-12 | 1375  | 4140 Alloy |
| MS51832A211L | N.A. | KNHXHL1612JMSY | 1-12    | 1-1/2-12 | 1500  | 4140 Alloy |