



# Jin Ming Jian De steel

## Different Standard

### 301 stainless steel

| Standard | Grade    | Chemical Composition %  | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|----------|---|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 1Cr17Ni7 | C≤0.15, Mn≤2.00, Si ≤1.00, P≤0.045, S≤0.030, Cr 16.0~18.0, Ni 6~8, N≤0.10 | Annealed, hot rolled/cold rolled | ≥205                | ≥520                  | ≥40          | HV≤200   |
| USA      | 301      |   |                                  |                     |                       |              |          |
| JIS      | SUS301   |   |                                  |                     |                       |              |          |
| German   | /        |   |                                  |                     |                       |              |          |

### 304 stainless steel

| Standard | Grade    | Chemical Composition %   | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|----------|--|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 0Cr18Ni9 | C≤0.08, Mn≤2.00, Si ≤1.00, P≤0.045, S≤0.030, Cr 18.0~20.0, Ni 8~11 | Annealed, hot rolled/cold rolled | ≥205                | ≥520                  | ≥30          | HV≤200   |
| USA      | 304      |  |                                  |                     |                       |              |          |
| JIS      | SUS304   |  |                                  |                     |                       |              |          |
| German   | 1.4301   |  |                                  |                     |                       |              |          |

### 304L stainless steel

| Standard | Grade      | Chemical Composition %  | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|------------|---|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 00Cr19Ni10 | C≤0.030, Mn≤2.00, Si ≤1.00, P≤0.045, S≤0.030, Cr 18.0~20.0, Ni 8~12 | Annealed, hot rolled/cold rolled | ≥170                | ≥480                  | ≥40          | HV≤200   |
| USA      | 304L       |   |                                  |                     |                       |              |          |
| JIS      | SUS304L    |   |                                  |                     |                       |              |          |
| German   | 1.4306     |   |                                  |                     |                       |              |          |

316 stainless steel

| Standard | Grade         | Chemical Composition %   | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|---------------|--|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 0Cr17Ni 12M02 | C≤0.08 , Mn≤2.00 , Si ≤1.00 , P≤0.045 , S≤0.030 , Cr 16.0~18.0,Ni 10.0~14.0 , Mo 2.00~3.00 | Annealed ,hot rolled/cold rolled | ≥205                | ≥520                  | ≥40          | HV≤200   |
| USA      | 316           |  |                                  |                     |                       |              |          |
| JIS      | SUS316        |  |                                  |                     |                       |              |          |
| German   | 1.4401        |  |                                  |                     |                       |              |          |

316L stainless steel

| Standard | Grade          | Chemical Composition %   | Temper      | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|----------------|--|-------------|---------------------|-----------------------|--------------|----------|
| GB       | 00Cr17Ni 14M02 | C≤0.030 , Mn≤2.00 , Si ≤1.00 , P≤0.045 , S≤0.030 , Cr 16.0~18.0,Ni 10.0~ 14.0 , Mo 2.00~3.00 | cold rolled | ≥177                | ≥485                  | ≥40          | HV≤200   |
| USA      | 316L           |  |             |                     |                       |              |          |
| JIS      | SUS316L        |  |             |                     |                       |              |          |
| German   | 1.4435         |  |             |                     |                       |              |          |

321 stainless steel

| Standard | Grade      | Chemical Composition %   | Temper               | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|------------|--|----------------------|---------------------|-----------------------|--------------|----------|
| GB       | 1Cr18Ni9Ti | C≤0.08 , Mn≤2.00 , Si ≤0.75 , P≤0.045 , S≤0.030 , Cr 17.0~19.0,Ni 9.0~ 12.0 , N≤0.10 , Ti ( 5x ( C+N ) ) ~0.70 | Annealed ,hot rolled | ≥205                | ≥518                  | ≥40          | HV≤200   |
| USA      | 321        |  |                      |                     |                       |              |          |
| JIS      | SUS321     |  |                      |                     |                       |              |          |
| German   | 1.4541     |  |                      |                     |                       |              |          |

309S stainless steel

| Standard | Grade      | Chemical Composition %   | Temper                | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|------------|--|-----------------------|---------------------|-----------------------|--------------|----------|
| GB       | 0Cr23Ni 13 | C≤0.08 , Mn≤2.00 , Si ≤1.00 , P≤0.045 , S≤0.030 , Cr 22.0~24.0,Ni 12.0~ 15.0 | Annealed ,cold rolled | ≥205                | ≥520                  | ≥40          | HV≤200   |
| USA      | 309S       |  |                       |                     |                       |              |          |
| JIS      | SUS309S    |  |                       |                     |                       |              |          |
| German   | /          |  |                       |                     |                       |              |          |

## 310S stainless steel

| Standard | Grade     | Chemical Composition %  | Temper                | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|-----------|---|-----------------------|---------------------|-----------------------|--------------|----------|
| GB       | 0Cr25Ni20 | C≤0.08 , Mn≤2.00 , Si ≤1.50 , P≤0.045 , S≤0.030 , Cr 24.0~26.0,Ni 19.0~22.0 | Annealed ,cold rolled | ≥205                | ≥520                  | ≥40          | HV≤200   |
| USA      | 310S      |   |                       |                     |                       |              |          |
| JIS      | SUS310S   |   |                       |                     |                       |              |          |
| German   | /         |   |                       |                     |                       |              |          |

## 2205 stainless steel

| Standard | Grade         | Chemical Composition %   | Temper                | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|---------------|--|-----------------------|---------------------|-----------------------|--------------|----------|
| GB       | 00Cr24Ni6M03N | C≤0.03 , Mn≤2.00 , Si ≤1.00 , P≤0.030 , S≤0.020 , Cr 21.0~23.0,Ni 4.5~6.5,Mo 2.5~3.5,N 0.08~0.20 | Annealed ,cold rolled | ≥450                | ≥620                  | ≥18          | HV≤320   |
| USA      | S31803/S32205 |  |                       |                     |                       |              |          |
| JIS      | SUS329J3L     |  |                       |                     |                       |              |          |
| German   | 1.4462        |  |                       |                     |                       |              |          |

## 444 stainless steel

| Standard | Grade     | Chemical Composition %   | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|-----------|--|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 00Cr18M02 | C≤0.025 , Mn≤1.00 , Si ≤1.00 , P≤0.040 , S≤0.030 , Cr 17.5~19.5,Ni 1.00 ,Mo 1.75~2.50 ,N≤0.035 , ( Ti+Nb ) ( 0.20+4x ( C+N ) ) ~0.80 | Annealed ,hot rolled/cold rolled | ≥275                | ≥410                  | ≥20          | HV≤230   |
| USA      | 444       |  |                                  |                     |                       |              |          |
| JIS      | SUS444    |  |                                  |                     |                       |              |          |
| German   | 1.4521    |  |                                  |                     |                       |              |          |

904L stainless steel

| Standard | Grade              | Chemical Composition %   | Temper                           | Yield strength/ Mpa | Tensile strength/ Mpa | Elongation % | Hardness |
|----------|--------------------|--|----------------------------------|---------------------|-----------------------|--------------|----------|
| GB       | 0Cr20Ni25SiMn4.5Cu | C≤0.02 , Mn≤2.00 , Si ≤1.00 , P≤0.045 , S≤0.035 , Cr 19.0~23.0,Ni 23~28 , Mo 4~5 , Ni 23~28,Cu 1.0~2.0 | Annealed ,hot rolled/cold rolled | ≥220                | ≥490                  | ≥36          | HV≤150   |
| USA      | N08904             |  |                                  |                     |                       |              |          |
| JIS      | /                  |  |                                  |                     |                       |              |          |
| German   | 1.4539             |  |                                  |                     |                       |              |          |

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