

常用奥氏体型不锈钢、耐热钢和奥氏体-铁素体型不锈钢牌号及其化学成分表

| No | 中国GB/T20878-2007 |                |                 | 美国牌<br>号 | 欧盟<br>牌号 | 化学成分(质量分数)%【成分为GB/T20878-2007标准】 |      |            |       |       |             |             |           |           |       |
|----|------------------|----------------|-----------------|----------|----------|----------------------------------|------|------------|-------|-------|-------------|-------------|-----------|-----------|-------|
|    | 统一数字<br>代号       | 旧牌号            | 新牌号             | ASTM     | EN       | C                                | Si   | Mn         | P     | S     | Ni          | Cr          | Mo        | N         | 其他元素  |
| 1  | S35350           | 1Cr17Mn6Ni5N   | 12Cr17Mn6Ni5N   | 201      | 1.4372   | 0.15                             | 1.00 | 5.50-7.50  | 0.050 | 0.030 | 3.50-5.50   | 16.00-18.00 |           | 0.05-0.25 |       |
| 2  | S35450           | 1Cr18Mn8Ni5N   | 12Cr18Mn9Ni5N   | 202      | 1.4373   | 0.15                             | 1.00 | 7.50-10.00 | 0.050 | 0.030 | 4.00-6.00   | 17.00-19.00 |           | 0.05-0.25 |       |
| 3  | S30110           | 1Cr17Ni7       | 12Cr17Ni7       | 301      | 1.4319   | 0.15                             | 1.00 | 2.00       | 0.045 | 0.030 | 6.00-8.00   | 16.00-18.00 |           | 0.10      |       |
| 4  | S30210           | 1Cr18Ni9       | 12Cr18Ni9       | 302      | 1.4310   | 0.15                             | 1.00 | 2.00       | 0.045 | 0.030 | 8.00-10.00  | 17.00-19.00 |           | 0.10      |       |
| 5  | S30408           | 0Cr18Ni9       | 06Cr19Ni10      | 304      | 1.4301   | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 8.00-11.00  | 18.00-20.00 |           |           |       |
| 6  | S30403           | 00Cr19Ni10     | 022Cr19Ni10     | 304L     | 1.4306   | 0.03                             | 1.00 | 2.00       | 0.045 | 0.030 | 8.00-12.00  | 18.00-20.00 |           |           |       |
| 7  | S30409           | -              | 07Cr19Ni10      | 304H     | 1.4948   | 0.04-0.10                        | 1.00 | 2.00       | 0.045 | 0.030 | 8.00-11.00  | 18.00-20.00 |           |           |       |
| 8  | S30458           | 0Cr19Ni9N      | 06Cr19Ni10N     | 304N     | 1.4315   | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 8.00-11.00  | 18.00-20.00 |           | 0.10-0.16 |       |
| 9  | S30510           | 1Cr18Ni12      | 10Cr18Ni12      | 305      | 1.4303   | 0.12                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.50-13.00 | 17.00-19.00 |           |           |       |
| 10 | S30808           | -              | 06Cr20Ni11      | 308      | -        | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-12.00 | 19.00-21.00 |           |           |       |
| 11 | S30920           | 2Cr23Ni13      | 16Cr23Ni13      | 309      | 1.4828   | 0.20                             | 1.00 | 2.00       | 0.040 | 0.030 | 12.00-15.00 | 22.00-24.00 |           |           |       |
| 12 | S30908           | 0Cr23Ni13      | 06Cr23Ni13      | 309S     | 1.4833   | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 12.00-15.00 | 22.00-24.00 |           |           |       |
| 13 | S31020           | 2Cr25Ni20      | 20Cr25Ni20      | 310      | 1.4821   | 0.25                             | 1.50 | 2.00       | 0.040 | 0.030 | 19.00-22.00 | 24.00-26.00 |           |           |       |
| 14 | S31008           | 0Cr25Ni20      | 06Cr25Ni20      | 310S     | 1.4845   | 0.08                             | 1.50 | 2.00       | 0.045 | 0.030 | 19.00-22.00 | 24.00-26.00 |           |           |       |
| 15 | S31608           | 0Cr17Ni12Mo2   | 06Cr17Ni12Mo2   | 316      | 1.4401   | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |           |       |
| 16 | S31668           | 0Cr18Ni12Mo3Ti | 06Cr17Ni12Mo2Ti | 316Ti    | 1.4571   | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |           | Ti≥5C |
| 17 | S31603           | 00Cr17Ni14Mo2  | 022Cr17Ni12Mo2  | 316L     | 1.4404   | 0.03                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |           |       |
| 18 | S31658           | 0Cr17Ni12Mo2N  | 06Cr17Ni12Mo2N  | 316N     | -        | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-13.00 | 16.00-18.00 | 2.00-3.00 | 0.10-0.16 |       |
| 19 | S31609           | 1Cr17Ni12Mo2   | 07Cr17Ni12Mo2   | 316H     | 1.4436   | 0.04-0.10                        | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |           |       |
| 20 | S31653           | 00Cr17Ni13Mo2N | 022Cr17Ni12Mo2N | 316LN    | 1.4429   | 0.03                             | 1.00 | 2.00       | 0.045 | 0.030 | 10.00-13.00 | 16.00-18.00 | 2.00-3.00 | 0.10-0.16 |       |
| 21 | S31708           | 0Cr19Ni13Mo3   | 06Cr19Ni13Mo3   | 317      | -        | 0.08                             | 1.00 | 2.00       | 0.045 | 0.030 | 11.00-15.00 | 18.00-20.00 | 3.00-4.00 |           |       |
| 22 | S31703           | 00Cr19Ni13Mo3  | 022Cr19Ni13Mo3  | 317L     | 1.4438   | 0.03                             | 1.00 | 2.00       | 0.045 | 0.030 | 11.00-15.00 | 18.00-20.00 | 3.00-4.00 |           |       |

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|----|------------------|-------------|----------------|-------------|--------|---------------|------|------|-------|-------|------------|-------------|-----------|-----------|-------------|
|    | 统一数字代号           | 旧牌号         | 新牌号            | ASTM        | EN     | C             | Si   | Mn   | P     | S     | Ni         | Cr          | Mo        | N         | 其他元素        |
| 23 | <b>S32168</b>    | 0Cr18Ni10Ti | 06Cr18Ni11Ti   | <b>321</b>  | 1.4541 | 0.08          | 1.00 | 2.00 | 0.045 | 0.030 | 9.00-12.00 | 17.00-19.00 |           |           | Ti 5C-0.70  |
| 24 | <b>S32169</b>    | 1Cr18Ni11Ti | 07Cr19Ni11Ti   | <b>321H</b> | 1.4541 | 0.04-0.10     | 0.75 | 2.00 | 0.030 | 0.030 | 9.00-13.00 | 17.00-20.00 |           |           | Ti 4C-0.60  |
| 25 | <b>S34778</b>    | 0Cr18Ni11Nb | 06Cr18Ni11Nb   | <b>347</b>  | 1.4550 | 0.08          | 1.00 | 2.00 | 0.045 | 0.030 | 9.00-12.00 | 17.00-19.00 |           |           | Nb 10C-1.10 |
| 26 | <b>S34779</b>    | 1Cr19Ni11Nb | 07Cr18Ni11Nb   | <b>347H</b> | 1.4912 | 0.04-0.10     | 1.00 | 2.00 | 0.045 | 0.030 | 9.00-12.00 | 17.00-19.00 |           |           | Nb 8C-1.10  |
| 27 | <b>S22053</b>    |             | 022Cr23Ni5Mo3N | <b>2205</b> |        | 0.03          | 1.00 | 2.00 | 0.030 | 0.020 | 4.50-6.50  | 22.00-23.00 | 3.00-3.50 | 0.14-0.20 |             |
| 28 | <b>S22253</b>    |             | 022Cr22Ni5Mo3N |             | 1.4462 | 0.03          | 1.00 | 2.00 | 0.030 | 0.020 | 4.50-6.50  | 21.00-23.00 | 2.50-3.50 | 0.08-0.20 |             |