

High Temperature Alloy Series

| Grade | C | Si | Mn | S | P | Cr | Co | W | Mo | Ti | Al | Fe | Ni | Other |
|---------|-----------|---------|---------|-----------|-----------|-----------|-------|-------|---------|-----------|---------|---------|-----------|--|
| | less than | | | | | | | | | | | | | |
| GH2132 | 0.08 | 1 | 1~2 | 0.02 | 0.03 | 13.5~16 | - | - | 1~1.5 | 1.75~2.35 | ≤0.40 | base | 24~27 | B 0.001~0.01 V 0.1~0.5 |
| GH3030 | 0.12 | 0.8 | 0.7 | 0.02 | 0.03 | 19~ 22 | - | - | - | 0.15~0.35 | ≤0.15 | ≤1.5 | base | - |
| GH3128 | 0.05 | 0.8 | 0.5 | 0.01 3 | 0.01 3 | 19~ 22 | - | 7.5~9 | 7.5~9 | 0.4~0.8 | 0.4~0.8 | ≤2.0 | base | B≤0.005 Ce≤0.05 Zr≤0.06 |
| GH4145 | 0.08 | 0.5 | 1 | 0.01 | 0.01 5 | 14~ 17 | ≤1 | - | - | 2.25~2.75 | 0.4~1 | 5~9 | ≥70 | Nb 0.7~1.2 |
| GH4169 | 0.08 | 0.35 | 0.35 | 0.01 5 | 0.01 5 | 17~ 21 | ≤1 | - | 2.8~3.3 | 0.65~1.15 | 0.2~0.8 | balance | 50~55 | Cu≤0.3 Nb4.75~5.5 Mg≤0.01 B≤0.006 |
| GH4080A | 0.04~0.1 | 0.8 | 0.4 | 0.01 5 | 0.02 | 18~ 21 | ≤2 | - | - | 1.8~2.7 | 1~1.8 | ≤1.5 | base | Cu≤0.2 B≤0.008 |
| GH3044 | 0.1 | 0.8 | 0.5 | 0.01 3 | 0.01 3 | 23.5~26.5 | - | 13~16 | ≤1.5 | 0.3~0.7 | ≤0.5 | ≤4.0 | base | Cu≤0.07 |
| GH2136 | 0.06 | 0.75 | 0.35 | 0.02 5 | 0.02 5 | 13~ 16 | - | - | 1~1.75 | 2.4~3.2 | ≤0.35 | base | 24.5~28.5 | B:0.005~0.025 V:0.01~0.1 |
| GH2036 | 0.34~0.4 | 0.3~0.8 | 7.5~9.5 | 0.03 | 0.03 5 | 11.~13.5 | - | - | 1.1~1.4 | ≤0.12 | - | base | 7~9 | V:1.25~1.55 Nb:0.25~0.5 |
| GH4738 | 0.03~0.1 | 0.15 | 0.1 | 0.01 5 | 0.01 5 | 18~ 21 | 12~15 | - | 3.5~5 | 2.75~3.25 | 1.2~1.6 | ≤2.0 | base | B:0.003~0.01 Zr:0.02~0.08 |

Precision Alloy Series

| Grade | C | Mn | S | P | Cr | Ni | Mo | Cu | Fe | Al | Co | Ti |
|-------|-----------|---------|------|------|---------|-----------|---------|------|------|---------|-----------|---------|
| | Less than | | | | | | | | | | | |
| 1J50 | 0.03 | 0.3~0.6 | 0.02 | 0.02 | - | 49~50.5 | - | ≤0.2 | rest | - | - | - |
| 1J79 | 0.03 | 0.6~1.1 | 0.02 | 0.02 | - | 78.5~80 | 3.8~4.1 | ≤0.2 | rest | - | - | - |
| 3J53 | 0.05 | 0.8 | 0.02 | 0.02 | 5.2~5.8 | 41.5~43 | 0.7~0.9 | - | rest | 0.5~0.8 | - | 2.3~2.7 |
| 4J29 | 0.03 | 0.5 | 0.02 | 0.02 | <0.2 | 28.5~29.5 | ≤0.2 | ≤0.2 | rest | - | 16.8~17.8 | - |
| 4J36 | 0.05 | 0.2~0.6 | 0.02 | 0.02 | - | 35~37 | - | - | rest | - | - | - |
| 4J42 | 0.05 | 0.8 | 0.02 | 0.02 | - | 41.5~42.5 | - | - | rest | ≤0.1 | ≤1.0 | - |

Incoloy Series

| Grade | C | Si | Mn | S | P | Cr | Ni | Fe | Al | Ti | Cu | Mo | Others |
|------------------|-----------|-------|-----|-------|------|---------------|-------|------|----------|----------|---------|-------------|-------------------|
| | Less than | | | | | | | | | | | | |
| Incoloy800 | 0.1 | 1 | 1.5 | 0.015 | 0.03 | 19~23 | 30~35 | rest | 0.15~0.6 | 0.15~0.6 | ≤0.75 | - | - |
| Incoloy800H | 0.05~0.1 | 1 | 1.5 | 0.015 | 0.03 | 19~23 | 30~35 | rest | 0.15~0.6 | 0.15~0.6 | ≤0.75 | - | - |
| Incoloy800H T | 0.06~0.1 | 1 | 1.5 | 0.015 | 0.03 | 19~23 | 30~35 | rest | 0.15~0.6 | 0.15~0.6 | ≤0.75 | - | Al+Ti 0.85~1.2 |
| Incoloy825 | 0.05~0.1 | 0.5 | 1 | 0.03 | 0.03 | 19.5~ 23.5 | 38~46 | rest | ≤0.2 | 0.6~1.2 | 1.5~3 | 2.5~ 3.5 | - |
| Incoloy901 | 0.2-0.06 | 0.4 | 0.5 | 0.008 | 0.02 | 11~14 | 40-45 | rest | ≤0.3 | 2.8-3.1 | ≤0.2 | 5-6.5 | Co≤1.0 |
| Incoloy925 | 0.03 | 0.5 | 1 | 0.03 | 0.03 | 19.5-22.5 | 42-46 | rest | 0.15-0.5 | 1.9-2.4 | 1.5-3 | 2.5~3. 5 | Co≤0.5 |
| Incoloy926 | 0.02 | 0.5 | 2 | 0.01 | 0.03 | 19-21 | 24-26 | rest | - | - | 0.5-1.5 | 6~7 | N 0.15-0.25 |
| Incoloy330 | 0.08 | 1-1.5 | 2 | 0.03 | 0.03 | 18-20 | 34-37 | rest | - | - | ≤1.0 | - | - |

Inconel Series

| Grade | C | Si | Mn | S | P | Cr | Ni | Fe | Al | Ti | Cu | Mo | Nb | Others |
|------------|-----------|-----|------|-------|-------|---------|-------|-------|-------|-------|------|-------|-----------|--------|
| | Less than | | | | | | | | | | | | | |
| Inconel600 | 0.15 | 0.5 | 1 | 0.015 | 0.03 | 14-17 | base | 6~10 | - | - | ≤0.5 | - | - | - |
| Inconel601 | 0.1 | 0.5 | 1 | 0.015 | 0.03 | 21-25 | base | 10~15 | 1-1.7 | - | ≤1.0 | - | - | - |
| Inconel625 | 0.1 | 0.5 | 0.5 | 0.015 | 0.015 | 20-23 | base | ≤5 | ≤0.4 | ≤0.4 | - | 8~10 | 3.15-4.15 | Co≤1 |
| Inconel725 | 0.03 | 0.2 | 0.35 | 0.01 | 0.015 | 19-22.5 | 55-59 | rest | 0.35 | 1-1.7 | - | 7-9.5 | 2.75-4 | - |
| Inconel690 | 0.05. | 0.5 | 0.5 | 0.015 | 0.03 | 27-31 | base | 7~11 | - | - | ≤0.5 | - | - | - |

Monel & Nickel Series

| Grade | C | Si | Mn | S | P | Cr | Ni | Mo | Fe | Co | W | Al | Ti | Cu |
|------------|-----------|-----|-----|-------|---|----|-----------|----|------------|----|---|-------------|-----------|-------|
| | less than | | | | | | | | | | | | | |
| Monel400 | 0.3 | 0.5 | 2 | 0.024 | - | - | ≥ 63 | - | ≤ 2.5 | - | - | - | - | 28-34 |
| Monel K500 | 0.25 | 0.5 | 1.5 | 0.01 | - | - | ≥ 63 | - | ≤ 2 | - | - | 2.3-3.15 | 0.35-0.85 | 27-33 |
| Monel404 | 0.15 | 0.1 | 0.1 | 0.024 | - | - | 52-57 | - | ≤ 0.5 | - | - | ≤ 0.05 | - | rest |

| Grade | NI | Fe | Cu | C | Mn | S | Si |
|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|
| Nickel200 | ≥ 99 | ≤ 0.4 | ≤ 0.25 | ≤ 0.15 | ≤ 0.35 | ≤ 0.01 | ≤ 0.35 |
| Nickel201 | ≥ 99 | ≤ 0.4 | ≤ 0.25 | ≤ 0.02 | ≤ 0.35 | ≤ 0.01 | ≤ 0.35 |

Nitronic & Alloy Series

| Grade | C | Si | Mn | S | P | Cr | Ni | Fe | Mo | Ti | Cu | Nb | N | Others |
|------------|-----------|---------|-----|------|------|-----------|-----------|------|-------|---------|----|---------|-----------|--------|
| | less than | | | | | | | | | | | | | |
| Nitronic50 | 0.06 | 1 | 4~6 | 0.03 | 0.04 | 20.5-23.5 | 11.5-13.5 | base | 1.5-3 | 0.1-0.3 | - | 0.1-0.3 | 0.2-0.4 | - |
| Nitronic60 | 0.1 | 3.5-4.5 | 7~9 | 0.03 | 0.06 | 16-18 | 8~9 | base | - | - | - | - | 0.08-0.18 | - |

| Grade | C | Si | Mn | S | P | Cr | Ni | Fe | Mo | Ti | Cu | Nb | N | Others |
|-------------|-----------|-----|-----|-----------|------|-------|-----------|----------|-------|---------|------------|---------------------------|-----------|--------|
| | less than | | | | | | | | | | | | | |
| Alloy20cb-3 | 0.07 | 1 | 2 | 0.03 | 0.03 | 19-21 | 32-38 | base | 2~3 | - | 3~4 | $\geq 8 \cdot C\% \sim 1$ | - | - |
| Alloy28 | 0.03 | 1 | 2.5 | 0.03 | 0.03 | 26-28 | 29.5-32.5 | base | 3~4 | - | 0.6-1.4 | - | - | - |
| Alloy31 | 0.015 | 0.3 | 2 | 0.01 | 0.02 | 26-28 | 30-32 | base | 6~7 | - | 1-1.4 | - | 0.15-0.25 | - |
| Alloy33 | 0.15 | 0.5 | 2 | 0.01 | 0.02 | 31-35 | 30-33 | base | 0.5-2 | - | 0.3-1.2 | - | 0.35-0.6 | - |
| Alloy75 | 0.08-0.15 | 1 | 1 | 0.01 5 | 0.02 | 18-21 | base | ≤ 5 | - | 0.2-0.6 | ≤ 0.5 | - | - | - |

Hastelloy & Nimonic Series

| Grade | C | P | S | Mn | Si | Ni | Cr | Co | Cu | Fe | N | Mo | Al | W | V | Ti | Others |
|------------------|-----------|-------|-------|-----|------|------|-----------|---------|---------|-------|---|-----------|------|---------|---------|-------|----------------|
| | Less than | | | | | | | | | | | | | | | | |
| HastelloyB | 0.05 | 0.04 | 0.03 | 1 | 1 | base | ≤1 | ≤2.5 | - | 4~6 | - | 26-30 | - | - | 0.2-0.4 | - | - |
| HastelloyB-2 | 0.02 | 0.04 | 0.03 | 1 | 0.1 | Base | ≤1 | ≤1 | - | ≤2 | - | 26-30 | - | - | - | - | - |
| HastelloyB-3 | 0.01 | 0.03 | 0.01 | 3 | 0.1 | ≥65 | 1~3 | ≤3 | ≤0.2 | 1~3 | - | 27-32 | ≤0.5 | ≤3 | ≤0.2 | ≅0.2 | Ni+Mo 94-98 |
| HastelloyC | 0.08 | 0.04 | 0.03 | 1 | 1 | base | 14.5-16.5 | ≤2.5 | - | 4~7 | - | 15-17 | - | 3-4.5 | ≤0.35 | - | - |
| HastelloyC-4 | 0.015 | 0.04 | 0.03 | 1 | 0.08 | base | 14-18 | ≤2 | - | ≤3 | - | 14-17 | - | - | - | ≅0.7 | - |
| HastelloyC-22 | 0.015 | 0.02 | 0.02 | 0.5 | 0.08 | base | 20-22.5 | ≤2.5 | - | 2~6 | - | 12.5-14.5 | - | 2.5-3.5 | ≤0.35 | - | - |
| Hastelloy C-276 | 0.01 | 0.04 | 0.03 | 1 | 0.08 | base | 14.5-16.5 | ≤2.5 | - | 4~7 | - | 15-17 | - | 3-4.5 | ≤0.35 | - | - |
| Hastelloy C-2000 | 0.01 | 0.025 | 0.01 | 0.5 | 0.08 | base | 22-24 | ≤2 | 1.3-1.9 | ≤3 | - | 15-17 | ≤0.5 | - | - | - | - |
| HastelloyG-3 | 0.015 | 0.04 | 0.03 | 1 | 1 | base | 21-23.5 | ≤5 | 1.5-2.5 | 18-21 | - | 6~8 | - | ≤1.5 | - | - | Nb/Ta ≤ 0.5 |
| HastelloyX | 0.05-0.15 | 0.025 | 0.015 | 1 | 1 | base | 20.5-23 | 0.5-2.5 | ≤0.5 | 17-20 | - | 8~10 | ≤0.5 | 0.2-1 | - | ≅0.15 | - |

| Grade | C | Si | Mn | S | P | Cr | Ni | Fe | Cu | Ti | Al | Co | Others |
|-----------|-----------|-----|-----|-------|------|-------|------|------|------|---------|---------|-------|------------------------------------|
| | less than | | | | | | | | | | | | |
| Nimonic90 | 0.13 | 0.8 | 0.4 | 0.015 | 0.02 | 18-21 | base | ≤1.5 | ≤0.2 | 2~3 | 1~2 | 15-21 | B≤0.02 Zr≤0.15 |
| Nimonic91 | 0.1 | 1 | 1 | 0.015 | 0.02 | 27-30 | base | ≤1 | ≤0.5 | 1.9-2.7 | 0.9-1.5 | 19-21 | Nb0.4-1.1 B0.002-0.01 Zr≤0.1 |

Super Duplex Stainless Steel

| Grade | C | Si | Mn | S | P | Cr | Ni | Mo | Cu | N | W | Other |
|---------------------------------|-----------|-----|-------|------|-------|-----------|---------|---------|-------|-----------|---------|-------|
| | less than | | | | | | | | | | | |
| F51(31803) | 0.03 | 1 | 2 | 0.02 | 0.03 | 21-23 | 4.5-6.5 | 2.5-3.5 | - | 0.08-0.2 | - | - |
| F53(S32750) | 0.03 | 0.8 | 1.2 | 0.02 | 0.035 | 24-26 | 6~8 | 3~5 | ≤0.5 | 0.24-0.32 | - | - |
| F55(S32760) | 0.03 | 1 | 1 | 0.01 | 0.03 | 24-26 | 6~8 | 3~4 | 0.5-1 | 0.2-0.3 | 0.5-1.5 | - |
| 329(S32900) | 0.08 | 1 | 1.5 | 0.03 | 0.04 | 23-28 | 3~6 | 1~3 | - | - | - | - |
| A4 steel (0Cr17Mn13Mo 2N) | 0.08 | 0.7 | 12~15 | 0.02 | 0.045 | 16.5-18.5 | - | 1.8-2.2 | - | 0.2-0.3 | - | - |

Super Austenite Stainless Steel

| Grade | C | Si | Mn | S | P | Cr | Ni | Mo | Cu | N | Other |
|-----------------------|-----------|-------|-------|-------|-------|---------------|---------------|---------|---------|-----------|-----------------|
| | less than | | | | | | | | | | |
| 904L(N08904) | 0.02 | 1 | 2 | 0.03 | 0.04 | 19-23 | 23-28 | 4~5 | 1~2 | - | - |
| 253Ma(S30815) | 0.05~0.1 | 1.4-2 | 0.8 | 0.03 | 0.04 | 20-22 | 10~12 | - | - | 0.14-0.2 | Ce 0.03-0.08 |
| 254SMo (F44/31254) | 0.02 | 0.8 | 1 | 0.01 | 0.03 | 19.5- 20.5 | 17.5- 18.5 | 6-6.5 | 0.5-1 | 0.18-0.22 | - |
| Al-6XN | 0.03 | 1 | 2 | 0.03 | 0.04 | 20-22 | 23.5- 25.5 | 6~7 | ≤0.75 | 0.18-0.25 | - |
| S31050 (310MoLN)) | 0.02 | 0.4 | 2 | 0.015 | 0.03 | 24-26 | 21-23 | 2~3 | - | 0.1-0.16 | - |
| U3 | 0.02 | 0.4 | 2.5-3 | 0.015 | 0.02 | 24-26 | 19-21 | 2.5-3 | - | 0.2-0.3 | - |
| HD | 0.03 | 4.5-6 | 1 | 0.01 | 0.03 | 17-19 | 18-20 | 0.3-0.8 | 1.5-2.5 | - | - |
| C4 | 0.03 | 3-4.5 | 1 | 0.03 | 0.035 | 13-15 | 13-15 | - | - | - | - |
| DS-2 | 0.02 | 5~7 | 1 | 0.03 | 0.03 | 8~11 | 22-25 | - | - | - | Al Ti ≤ 0.5 |



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