

# Hastelloy

## C-2000

UNS N06200

W.Nr. 2.4675

Nickel

Chromium

Molybdenum

Copper

[www.arialloy.com/hastelloy-c2000/](http://www.arialloy.com/hastelloy-c2000/)

### Chemical Composition

| Mo%         | Cr%         | Fe%     | Co%     | C%      | Si%       |
|-------------|-------------|---------|---------|---------|-----------|
| 15.0 ~ 17.0 | 22.0 ~ 24.0 | ≤ 3.0   | ≤ 2.0   | ≤ 0.010 | ≤ 0.08    |
| Mn%         | P%          | S%      | Ni%     | Al%     | Cu%       |
| ≤ 0.5       | ≤ 0.025     | ≤ 0.010 | Balance | ≤ 0.50  | 1.3 ~ 1.9 |

### Mechanical Properties

| Product              | Condition | T.S.     | Y.S.     | EL     | RA     | Hardness |
|----------------------|-----------|----------|----------|--------|--------|----------|
|                      |           | MPa, min | MPa, min | %, min | %, min | HRB, max |
| Pipe & Tube          | All       | 690      | 310      | 45     | ...    | ...      |
| Bar & Rod            | All       | 690      | 310      | 45     | ...    | ...      |
| Sheet, Plate & Strip | All       | 690      | 310      | 45     | ...    | 100      |

### Physical Properties

| Density            |                   | Melting Range |             |
|--------------------|-------------------|---------------|-------------|
| lb/in <sup>3</sup> | g/cm <sup>3</sup> | °F            | °C          |
| 0.307              | 8.50              | 2422 ~ 2476   | 1328 ~ 1358 |

### Main Standards

| Billet, Rod & Bar                                    | Plate, Sheet & Strip     | Pipe & Tube                                                             | Fittings                                             | Forgings                                             | Welding Products                                      |
|------------------------------------------------------|--------------------------|-------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| ASTM B574<br>ASME SB 574<br>ASTM B472<br>ASME SB 472 | ASTM B575<br>ASME SB 575 | ASTM B622/ASME SB 622<br>ASTM B619/ASME SB 619<br>ASTM B626/ASME SB 626 | ASTM B366<br>ASME SB 366<br>ASTM B462<br>ASME SB 462 | ASTM B564<br>ASME SB 564<br>ASTM B462<br>ASME SB 462 | AWS A5.14/<br>ERNiCrMo-17<br>AWS A5.11/<br>ENiCrMo-17 |