



HASTELLOY™ C-2000

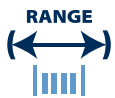
Key Features

- Developed to resist corrosion in a wider range of media
- Resistant to an extensive range of corrosive chemicals including sulphuric, hydrochloric & hydrofluoric acids
- Superior pitting resistance and crevice corrosion resistance to Hastelloy C-276
- Excellent corrosion resistance to reducing media
- Good oxidising resistance

IMPORTANT

We will manufacture to your required mechanical properties.

key advantages to you, our customer



0.025mm to 21mm
(.001" to .827")



Order 3m to 3t
(10 ft to 6000 Lbs)



Delivery:
within 3 weeks



Wire to your spec



E.M.S available



Technical support

HASTELLOY™ C-2000 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

Packaging

- Coils
- Spools
- Bars or lengths



Trade name of Haynes International.

| Chemical Composition | | | Specifications | Key Features | Typical Applications |
|----------------------|-------|-------|--|--|----------------------|
| Element | Min % | Max % | ASTM B574 ASTM B575 ASTM B619 | Developed to resist corrosion in a wider range of media Resistant to an extensive range of corrosive chemicals including sulphuric, hydrochloric & hydrofluoric acids | Chemical processing |
| Cr | 22.00 | 24.00 | | | |
| Mo | 15.00 | 17.00 | Designations W.Nr. 2.4675 UNS N06200 AWS 055 | Superior pitting resistance and crevice corrosion resistance to Hastelloy C-276 Excellent corrosion resistance to reducing media Good oxidising resistance | |
| Fe | - | 3.00 | | | |
| C | - | 0.010 | | | |
| Si | - | 0.080 | | | |
| Co | - | 2.00 | | | |
| Mn | - | 0.50 | | | |
| P | - | 0.025 | | | |
| S | - | 0.010 | | | |
| Cu | 1.30 | 1.90 | | | |
| Al | - | 0.50 | | | |
| Ni | BAL | | | | |

| | | |
|---------------------------------|----------------------------|---|
| Density | 8.5 g/cm ³ | 0.307 lb/in ³ |
| Melting Point | 1399 °C | 2550 °F |
| Coefficient of Expansion | 12.4 µm/m °C (20 – 100 °C) | 6.9 x 10 ⁻⁶ in/in °F (70 – 212 °F) |
| Modulus of Rigidity | 79 kN/mm ² | 11458 ksi |
| Modulus of Elasticity | 206 kN/mm ² | 29878 ksi |

| Heat Treatment of Finished Parts | | | | | |
|-------------------------------------|----------------|-------------|-----------|-----------|---------|
| Condition as supplied by Alloy Wire | Type | Temperature | | Time (Hr) | Cooling |
| | | °C | °F | | |
| Annealed or Spring Temper | Stress Relieve | 400 – 450 | 750 – 840 | 2 | Air |

| Properties | | | | |
|---------------|--------------------------|-----------|-------------------------------|--------------|
| Condition | Approx. tensile strength | | Approx. operating temperature | |
| | N/mm ² | ksi | °C | °F |
| Annealed | <1000 | <145 | -200 to +400 | -330 to +750 |
| Spring Temper | 1300 – 1600 | 189 – 232 | -200 to +400 | -330 to +750 |

The above tensile strength ranges are typical. If you require different please ask.