

This page is mainly introduced the NCF 800 H Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of NCF 800 H, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel NCF 800 H

NCF 800 H Standard Number:

| ITEM | Standard Number | Descriptions |
|------|-----------------|---|
| 1 | G 4902 (1991) | Corrosion-resisting and heat-resisting superalloy plates and sheets |

NCF 800 H Chemical composition(mass fraction)(wt.%)

| Chemical | Min.(%) | Max.(%) | | | | | | | |
|----------|-----------|---------|----|----|----|----|----|----|-------|
| C | 0.05 | 0.10 | | | | | | | |
| Si | | 1.00 | | | | | | | |
| Mn | | 1.50 | | | | | | | |
| P | | 0.03 | | | | | | | |
| S | | 0.015 | | | | | | | |
| Cr | 19.00 | 23.00 | | | | | | | |
| Ni | 30.00 | 35.00 | | | | | | | |
| Cu | | 0.75 | | | | | | | |
| Al | 0.15 | 0.60 | | | | | | | |
| Ti | 0.15 | 0.60 | | | | | | | |
| Fe | remaining | | | | | | | | |
| C | Si | Mn | P | S | Cr | Ni | Mo | V | Ta |
| W | N | Cu | Co | Pb | B | Nb | Al | Ti | Other |
| | | | | | | | | | |

Corrosion-resisting and heat-resisting superalloy plates and sheets

| NCF 800 H Physical Properties | | |
|-------------------------------|---------|--------------------------|
| Tensile strength | 115-234 | σ_b /MPa |
| Yield Strength | 23 | $\sigma_{0.2} \geq$ /MPa |
| Elongation | 65 | $\delta_5 \geq$ (%) |
| ψ | - | $\psi \geq$ (%) |
| Akv | - | Akv \geq /J |
| HBS | 123-321 | - |
| HRC | 30 | - |

| NCF 800 H Mechanical Properties | | |
|---------------------------------|---------|--------------------------|
| Tensile strength | 231-231 | σ_b /MPa |
| Yield Strength | 154 | $\sigma_{0.2} \geq$ /MPa |
| Elongation | 56 | $\delta_5 \geq$ (%) |
| ψ | - | $\psi \geq$ (%) |
| Akv | - | Akv \geq /J |
| HBS | 235-268 | - |
| HRC | 30 | - |

| NCF 800 H Heat Treatment Regime | | | | |
|---------------------------------|-----------|-----------|-------------|-------|
| Annealing | Quenching | Tempering | Normalizing | Q & T |
| √ | √ | √ | √ | √ |

| NCF 800 H Range of products | | | | |
|-----------------------------|----------------------|-------------------|---------------------------------------|---|
| Product type | Products | Dimension | Processes | Deliver Status |
| Plates / Sheets | Plates / Sheets | 0.08-200mm(T)*W*L | Forging, hot rolling and cold rolling | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Steel Bar | Round Bar, Flat Bar, | Φ8-1200mm*L | Forging, hot rolling and | Black, Rough Turning, |

| | | | | |
|---------------|--|----------------------------|-----------------------------------|---|
| | Square Bar | | cold rolling, Cast | Shot Blasting, |
| Coil / Strip | Steel Coil /Steel Strip | 0.03-16.0x1200mm | Cold-Rolled & Hot-Rolled | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Pipes / Tubes | Seamless Pipes/Tubes, Welded Pipes/Tubes | OD:6-219mm x WT:0.5-20.0mm | Hot extrusion, Cold Drawn, Welded | Annealed, Solution and Aging, Q+T, ACID-WASHED |

We can produce Specialsteel the specifications follows: