

This page is mainly introduced the ZG08Cr20Ni10Nb Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of ZG08Cr20Ni10Nb, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Alloy ZG08Cr20Ni10Nb

ZG08Cr20Ni10Nb Standard Number:

| ITEM | Standard Number | Descriptions |
|------|-----------------|--------------|
|------|-----------------|--------------|

ZG08Cr20Ni10Nb Chemical composition (mass fraction) (wt.%)

| Chemical | | | Min.(%) | | | | Max.(%) | | | |
|----------|-------|-------|---------|-------|-----------|----------|---------|----|-------|--|
| C | Si | Mn | P | S | Cr | Ni | Mo | V | Ta | |
| ≤0.08 | ≤2.00 | ≤2.00 | 0.045 | 0.035 | 18.0-21.0 | 9.0-12.0 | | | | |
| W | N | Cu | Co | Pb | B | Nb | Al | Ti | Other | |
| | | | | | | 8×C ≤1.0 | | | | |

ZG08Cr20Ni10Nb

ZG08Cr20Ni10Nb Physical Properties

| | | |
|------------------|---------|------------------------|
| Tensile strength | 115-234 | σ _b /MPa |
| Yield Strength | 23 | σ _{0.2} ≥/MPa |
| Elongation | 65 | δ ₅ ≥ (%) |
| ψ | - | ψ ≥ (%) |
| A _{kV} | - | A _{kV} ≥/J |
| HBS | 123-321 | - |
| HRC | 30 | - |

ZG08Cr20Ni10Nb Mechanical Properties

| | | |
|------------------|---------|------------------------|
| Tensile strength | 231-231 | σ _b /MPa |
| Yield Strength | 154 | σ _{0.2} ≥/MPa |

| | | |
|------------|---------|----------------------|
| Elongation | 56 | $\delta 5 \geq (\%)$ |
| ψ | - | $\psi \geq (\%)$ |
| Akv | - | $Akv \geq /J$ |
| HBS | 235-268 | - |
| HRC | 30 | - |

ZG08Cr20Ni10Nb Heat Treatment Regime

| Annealing | Quenching | Tempering | Normalizing | Q & T |
|-----------|-----------|-----------|-------------|-------|
| √ | √ | √ | √ | √ |

ZG08Cr20Ni10Nb 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, Square Bar | $\Phi 8$ -1200mm*L | Forging, hot rolling and cold rolling, Cast | Black, Rough Turning, 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 Special Alloy the specifications follows: