

Steel Grade: C22G2/C22.8 | Material No: 1.0460

CHEMICAL COMPOSITION

| C(%) ≤ | Si(%) ≤ | Mn(%) ≤ | P(%) ≤ | S(%) ≤ | Cr(%) | Mo(%) | Ni(%) | Other(%) |
|-----------|---------|-----------|--------|--------|-------|-------|-------|--|
| 0.18~0.23 | ≤0.40 | 0.30~0.90 | 0.025 | 0.015 | — | — | — | Cu ≤ 0.30①; Al ≤ 0.020; Nb ≤ 0.01; Ti ≤ 0.03; V ≤ 0.02 |

HARDNESS AND HEAT TREATMENT MECHANICAL PROPERTIES

| Hot Working °C | Annealing/Normalizing °C | Quench °C | Temper °C | Brinell Hardness HBS | Tensile Strength $\sigma_b \geq$ Mpa | Normal Temp Yield Strength $\sigma_s \geq$ Mpa | Extensibility $\delta_5 \geq$ (%) | Ballistic $ak_v \geq$ J⑥ | | |
|---|--------------------------|-----------|---------------------------|----------------------|--|--|-------------------------------------|----------------------------|-------|----------------|
| 1100~850 | 890~950③ | — | — | 120~160 | 410~540 | 240 | 25 | 44 | | |
| Yield Strength $\sigma_{0.2} \geq$ /Mpa | | | | | Creep Limit/Mpa 1000h | | | | | |
| 200°C | 300°C | 350°C | 400°C | 450°C | 500°C | 450°C | 500°C | 550°C | 600°C | 10000h 450°C |
| 185 | 145 | 125 | 100 | 100 | — | — | — | — | — | 80 |
| Creep Limit/Mpa 10000h | | | Creep Rupture/Mpa 1000h | | | Creep Rupture/Mpa 10000h | | | | |
| 500°C | 550°C | 600°C | 450°C | 500°C | 550°C | 600°C | 450°C | 500°C | 550°C | 600°C |
| — | — | — | — | — | — | — | 113 | — | — | — |

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