

Steel Grade: 16CrMo4 | Material No: 1.7242

CHEMICAL COMPOSITION

| C(%) ≤ | Si(%) ≤ | Mn(%) ≤ | P(%) ≤ | S(%) ≤ | Cr(%) | Mo(%) | Ni(%) | Other(%) |
|-----------|-----------|-----------|--------|--------|-----------|-----------|-------|----------|
| 0.13~0.20 | 0.15~0.35 | 0.50~0.80 | 0.035 | 0.035 | 0.90~1.20 | 0.20~0.30 | ≤0.40 | — |

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 | 650~700 | 900~950 Oil | 580~680 | 160~205 | 540~690 | 345 | 20 | 41 | | |
| 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 |
| — | 284 | 265 | 235 | — | — | — | — | — | — | 196 |
| 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 |
| 118 | 59 | — | 157 | 78 | 25 | — | 275 | 167 | 78 | — |

From: Jiangyou Hacer Technology Co., Limited
 Factory Add: Jiangzhang Road, Jiangyou City, SC, China
 Website: <https://www.jhacer.com/>
 Email: sales@jhacer.com
 Phone: +86-(0)816-3260757
 Call: +86-13658128897 (WhatsApp)
 Fax: +86-(0)816-3260757