



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 16CrNiS4 | Material No: 1.5715②

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%) | Mo(%) | Ni(%) | Other(%) |
|-----------|-------|-----------|--------|--------|-----------|-------|-----------|----------|
| 0.13~0.19 | ≤0.40 | 0.70~1.00 | 0.035 | 0.035 | 0.60~1.00 | — | 0.80~1.10 | — |

HARDNESS AND HEAT TREATMENT

| Hot Working/°C | Annealing/°C | Carburize/°C | Inside Quench/°C | Surface Quench/°C | Temper/°C | Annealing hardness HBS ≤ |
|----------------|--------------|--------------|------------------|-------------------|-----------|--------------------------|
| 1150~850 | 610~650 | 880~980 | 850~890 | 780~820 Oil | 150~200 | 217 |

INSIDE MECHANICAL PROPERTIES

| Size/mm | Tensile Strength σ_b /MPa | Yield Strength $\sigma_s \geq$ /MPa | Extensibility $\delta 5(\%) \geq$ | Reduction of Area $\psi(\%) \geq$ | Ballistic akv/J |
|---------|------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| φ30 | ≥900 | — | — | — | — |

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