



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 60SiCr7 | Material No: 1.7108

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Other(%) |
|-----------|-----------|-----------|------|------|-----------|-------|----------|
| 0.57~0.65 | 1.50~1.80 | 0.70~1.00 | 0.03 | 0.03 | 0.20~0.40 | — | — |

HARDNESS AND HEAT TREATMENT

| Hot Working/°C | Spring Thermal Forming/°C | Annealing/°C | Normalizing/°C | Quench/°C | Temper/°C | Annealing Hardness ≤HBS |
|----------------|---------------------------|--------------|----------------|------------|-----------|-------------------------|
| 1050~850 | 900~830 | 640~680 | 850~880 | 830~860Oil | 350~550 | 255 |

MECHANICAL PROPERTIES

| Flat Steel Size/mm | Round Steel Size/mm | Tensile Strength σ_b /MPa | Yield Strength $\sigma_s \geq$ /MPa | Extensibility $\delta_5 \geq$ (%) | Reduction of Area $\psi \geq$ (%) | Ballistic AKV① /J \geq |
|--------------------|---------------------|------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|----------------------------|
| 18 | — | 1470~1670 | 1080 | 6 | 25 | 14 |

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