



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 38Si6 | Material No: 1.5022

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Other(%) |
|-----------|-----------|-----------|------|------|-------|-------|----------|
| 0.35~0.42 | 1.40~1.60 | 0.50~0.80 | 0.05 | 0.05 | — | — | N 0.007 |

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 | 830~860 Water | 350~550 | 217 |

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 |
|--------------------|---------------------|------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|----------------------------|
| 10 | 18 | 1180~1370 | 1030 | 6 | 30 | 21 |

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