

**Steel Grade: 16MnCr5 | Material No: 1.7131**
**CHEMICAL COMPOSITION**

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)
0.14 ~ 0.19	≤0.40	1.00 ~ 1.30	0.035	0.035	0.80 ~ 1.10	—	—

**HARDNESS AND HEAT TREATMENT**

Quench/°C Water	Quench/°C Oil	Temper/°C
Same as carburized steel 16MnCr5	Same as carburized steel 16MnCr5	Same as carburized steel 16MnCr5

**MECHANICAL PROPERTIES**

Softening Annealing/°C	Tensile Strength (≤100mm) σ <sub>b</sub> /MPa ②③	Reduction of Area (≤100mm) ψ(%) ③	Tensile Strength (≤60mm) σ <sub>b</sub> /MPa ②④	Reduction of Area(≤60mm) ψ(%) ②④	Tensile Strength≥ σ <sub>b</sub> /MPa ⑥	Yield Strength ≥ σ <sub>s</sub> /MPa ⑥	Extensibility≥ δ <sub>5</sub> (%) ⑥	Reduction of Area ≥ ψ(%) ⑥	Ballistic≥ AKV/J ⑥
650 ~ 700	570	60	550	62	—	—	—	—	—

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