



# Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 52MnCrB3 | Material No: 1.7138

## CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Other(%)
0.48~0.55	0.15~0.35	0.75~1.00	0.035	0.035	0.40~0.60	—	B 0.0008

## HARDNESS AND HEAT TREATMENT

Hot Working/°C	Spring Thermal Forming/°C	Annealing/°C	Normalizing/°C	Quench/°C	Temper/°C	Annealing Hardness ≤HBS
1050~850	900~800	640~680	850~880	830~860Oil	350~550	230

## MECHANICAL PROPERTIES

Flat Steel Size/mm	Round Steel Size/mm	Tensile Strength   $\sigma_b$ /MPa	Yield Strength   $\sigma_s \geq$ /MPa	Extensibility   $\delta_5 \geq$ (%)	Reduction of Area   $\psi \geq$ (%)	Ballistic   AKV① /J $\geq$
17	24	1320~1570	1130	6	25	14

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