



# Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 45S20 | Material No: 1.0727

## CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Pb(%)
0.42 ~ 0.50	≤0.40	0.70 ~ 1.10	0.06	0.15 ~ 0.25	—

## MECHANICAL PROPERTIES

Condition	Size/mm	Tensile Strength  $\sigma_b$ /Mpa	Yield Strength  $\sigma_s$ /Mpa	Extensibility  $\delta$ (%)≥	Hardness HBS≤
840 ~ 870°C Normalizing	≤16mm	580 ~ 700	335	—	—
840 ~ 870°C Normalizing	17 ~ 40mm	580 ~ 700	325	—	—
840 ~ 870°C Normalizing	41 ~ 63mm	580 ~ 700	315	14	—
Before Hot Working	≤10mm	590 ~ 700	—	—	229
Before Hot Working	11 ~ 16mm	590 ~ 760	—	—	229
Before Hot Working	17 ~ 40mm	590 ~ 760	—	—	223
Before Hot Working	41 ~ 63mm	590 ~ 740	—	—	223
Cold-Drawing	≤10mm	740 ~ 980	570	5	—

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