



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 39CrMoV13-9 | Material No: 1.8523

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.35~0.42	0.15~0.40	0.40~0.70	0.03	0.035	3.00~3.50	0.80~1.10	V 0.15~0.25

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Quench/°C	Temper/°C	Nitriding/°C	Annealing hardness HBS ≤
1050~850	650~700	920~960 Oil or Air	570~650	490~510	262

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength   $\sigma_b$ /MPa	Yield Strength   $\sigma_s \geq$ /MPa	Extensibility   $\delta_5(\%) \geq$	Ballistic   akv/J①	carburized layer   HV
≤ 40	1420	1080	8	27	800

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