



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 20CrMoV13-5 | Material No: 1.7779

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.17~0.23	0.15~0.35	0.30~0.50	0.025	0.02	3.00~3.30	0.50~0.60	V0.45~0.55

HARDNESS AND HEAT TREATMENT

Hot Working(°C)	Annealing(°C)	Quench(°C)	Refrigeration	Temper(°C)
1100~850	680~730	980~1020	Oil/Air	630~700

MECHANICAL PROPERTIES

Tensile Strength $\sigma_b \geq$ Mpa	Yield Strength $\sigma_s \geq$ Mpa	Extensibility $\delta_5 \geq$ (%)	Ballistic $ak_v \geq$ (J/cm ²)	Annealing hardness HBS
690~830	540	16	55	220~265

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