

Virat Special Steels

EN 31

DIN 100Cr6

AISI 52100

Steel properties

C 1.1 Si 0.25 Mn 0.6 Cr 1 .40 S 0.5

EN31 steel stockholders and suppliers, delivering throughout the India. Virat Special Steelare stockholders and suppliers of EN31 through hardening steel in round, flat and squarebar. EN31 could be a quality high carbon tool steel that offers a high degee of hardness with compressive strength and abrasion resistances.

Standards Physical properties

AISI 52100	AFNOR 20	AFNOR 20NCD				
Thermal conductivity °C W/ (m • K)	20 44.5	350 45.0	700 46.0			

Applications

Acceptable fr many automobile applications such as heavy duty gear, shaft, pinion, camshafts, gudgeon pins and machiningcomponents.

Heat treatment

Soft annealing °C	Cooling	Hardness HB
780-800	Furnace	max. 207

Stress-relief annealing oc Cooling 600-650 Furnace

1st pre-heating °C	2nd and 3rd pre-heating °C	Hardening' °C	Quenching	Tempering °C	Hardness after tempering HRC
up to approx. 300 in an air-circulating					
furnace	a)800	800-820	810 °C = a)Oil	at least twice 150-200	61-63
	b) 800 and 900		b)Quench	100 200	

Tempering Graph

EFFECT OP TEMPERING ON CASE HARDNESS

