

**32CrMoV12-10** Steel is a high-quality Cold work tool steel, It belongs to the high-quality high carbon alloy tool steel. It comes under “ Special Steel” Category

## STANDARDS •

- » Germany: 1.7765
- » France: AFNOR 32CDV12
- » Europe: 32CrMoV12-10

## CHEMICAL COMPOSITION •

	C	Cr	Si	Mn	Mo	V	P	S
Min	0.28	2.60	0.15	0.60	0.80	0.20	--	--
<b>Typical</b>	<b>0.31</b>	<b>2.90</b>	<b>0.27</b>	<b>0.75</b>	<b>1.00</b>	<b>0.30</b>		
Max	0.34	3.20	0.40	0.90	1.20	0.40	0.035	0.035

## APPLICATIONS •

- » Bolts
- » Crankshafts
- » Screws
- » Automobile Industry

## FORM SUPPLIED •

- » Round Bar
- » Square Block
- » Plates
- » Hexagonal bar
- » Flat Bars

Available surface conditions : drawn, ground, hot rolled, cold rolled, peeled, turned.

## HEAT TREATMENT •

### ● Forged :

Slowly heated the 32CrMoV12-10 steel material to 1100-850°C. Initial hammer blows should be light due to the comparatively high hot strength of this steel.

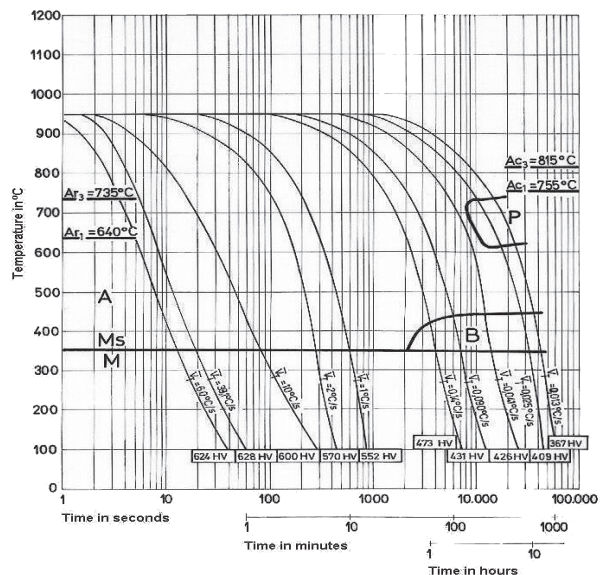
### ● Annealing :

Heat to approx. 720°C, cool slowly. This will produce a maximum Brinell hardness of 224.

### ● Hardening :

DIN 32CrMoV12-10 sheets of steel should be heated uniformly to 850-890°C until completely heated through.

Then withdraw 32CrMoV12-10 steel tools from the furnace, either air cool or oil quench.



Tool	Hardening	Tempering
single edge cutting tools	1220 °C	560 °C
multi edge cutting tools	1180-1220 °C	560 °C
cold work tools	1050-1150 °C	560 °C

## DELIVERY HARDNESS . \_\_\_\_\_

» Typical soft annealed hardness is 224 HB

## PROCESSING . \_\_\_\_\_

32CrMoV12-10 tool steel round bar and flat sections can be cut to your required sizes. 32CrMoV12-10 tool steel ground bar can also be supplied, providing a high-quality tool steel precision ground tool steel bar to your required tolerances. 32CrMoV12-10 steel is also available as Ground Flat Stock / Gauge Plate, in standard and nonstandard sizes.

## GRINDING . \_\_\_\_\_

During Grinding, local heating of the surface, which can alter the temper, must be avoided. Grinding wheel manufacturers can provide advise on the choice of grinding wheels.

## SURFACE TREATMENT . \_\_\_\_\_

Some Surface treatments for DIN 1.7765 include :

Laser remelting, Nitriding, painting, powder coating, anodizing, plating, grinding, polishing, and abrasion.

## SIZES AVAILABLE . \_\_\_\_\_



ROUND	Starting From	Upto
DIAMETER	8 mm	500 mm
LENGTH	2000 mm	6000 mm




SQUARE BAR	Starting From	Upto
SIZE	8x8 mm	250x250 mm



FLAT	Starting From	Upto
THICKNESS	4 mm	205 mm
WIDTH	20 mm	400 mm

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