



## H10A HOT WORK TOOL STEEL

COMPOSITION %	C	Cr	Mo	V	Co
	0.32	3.0	2.80	0.5	3.0
STANDARDS	1.2885, X 32 CrMoCoV 3 3 3				

H10A is a hot work tool steel with good resistance to thermal shocks and hot tensile strength.

## APPLICATIONS

Pressure casting dies, hot pressing dies, metal extrusion tools primarily for heavy metals.

## PHYSICAL PROPERTIES

Thermal expansion	$10^{-6} \text{ m / (m} \cdot \text{K)}$	20-100	20-200	20-300	20-400	20-500	20-600	20-700
		10.5	11.3	11.8	12.3	12.5	12.8	13.0
Thermal conductivity	$\text{W / (m} \cdot \text{K)}$	200°C		350°C		700°C		
		27.3		30.6		28.0		

## HEAT TREATMENT

Hardening	In air, oil or hot bath	HRC	N/mm <sup>2</sup>
1000°C	500°C - 550°C	52	1790

Soft annealing	Cooling	Hardness HB
770 - 840	Furnace	max. 230

Tempering									
°C	100	200	300	400	500	550	600	650	700
HRC	52	52	50	49	50	51	50	44	31
N/mm <sup>2</sup>	1790	1790	1670	1630	1670	1730	1670	1400	995