

DELIVERY CONDITION

Annealed.

PROPERTIES AND MOST COMMON APPLICATIONS

Cold work tool steel with 12 % chromium with high wear resistance and good tenacity.

Suitable for ulterior processes to quenching (nitriding, surface coating).

Its most common applications are for cutting and embossing dies, chasers, mill rolls, punches, woodworking tools and circular knives.

DIMENSIONS IN STOCK MM.

15-503



15-502



20X8-403X200

APPLICABLE STANDARD

EN ISO 4957

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	Cr	Mo	V
MIN	1,45	0,20	0,10			11,00	0,70	0,70
MAX	1,60	0,60	0,60	0,030	0,030	13,00	1,00	1,00

HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
840-890	1000-1050 Air hot bath oil	525-570 1 tempered 525-570 2 tempered

MECHANICAL PROPERTIES

Mechanical properties at room temperature in annealed condition.

Maximun hardness: 255 HB

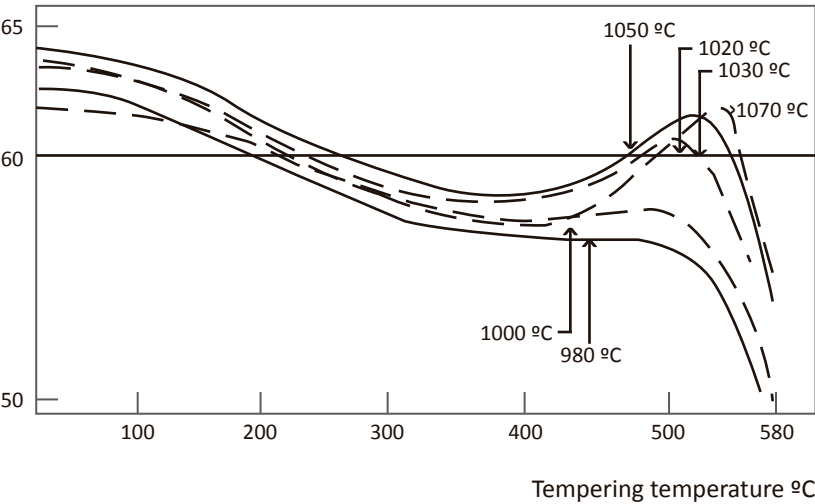
APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
X153CrMoV12	X153CrMoV12	1.2379	F5211		Z160CDV12	BD2	X155CrMo12 1KU	D2	X12MΦ

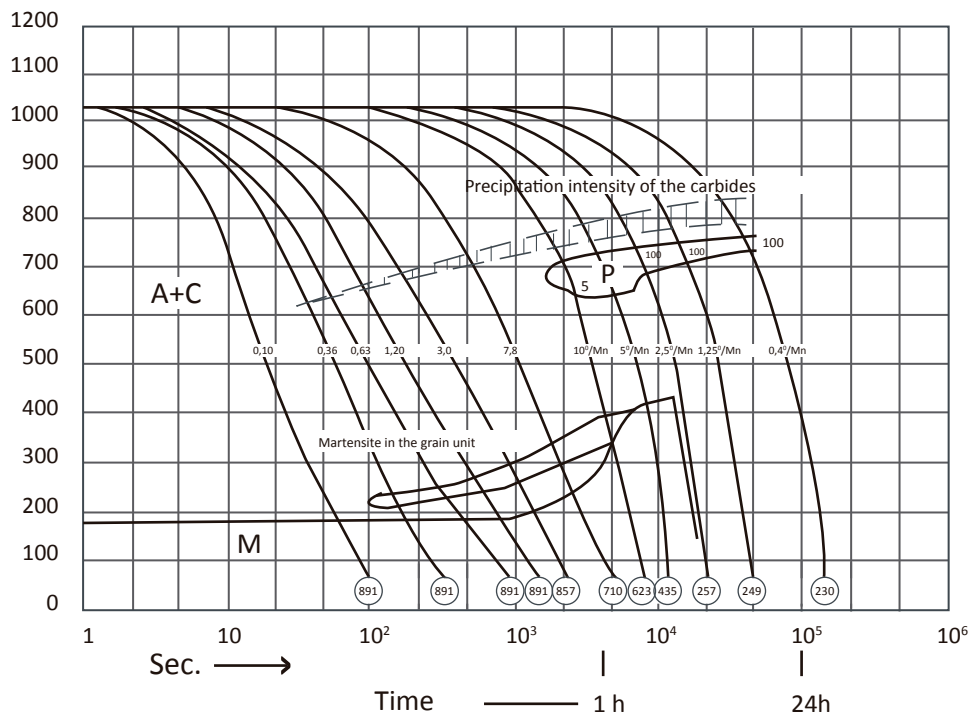
COLOUR CODE



HARDNESS CURVE ACCORDING TO THE TEMPERATURE OF AUSTENISATION AND TEMPERING



CCT DIAGRAM



O = Hardness