

DELIVERY CONDITION

Annealed.

PROPERTIES AND MOST COMMON APPLICATIONS

Torsion and bending stress-resistant steel.

Before quenching it is necessary to turn to avoid cracks and achieve the suitable hardness.

Its most common applications are for springs, fixed keys, chisels, hacksaws, shears, wire-cutting scissors, torsion bars, straps and two-leaf keys.

DIMENSIONS IN STOCK MM.



21-302

APPLICABLE STANDARD

EN 10083-3

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	Cr	V
MIN	0,47	0,70				0,90	0,10
MAX	0,55	1,10	0,40	0,025	0,025	1,20	0,25

HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
670-710	820 - 870 oil	540-680

MECHANICAL PROPERTIES

Mechanical properties at room temperature in annealed condition.

Maximun hardness: 248 HB.

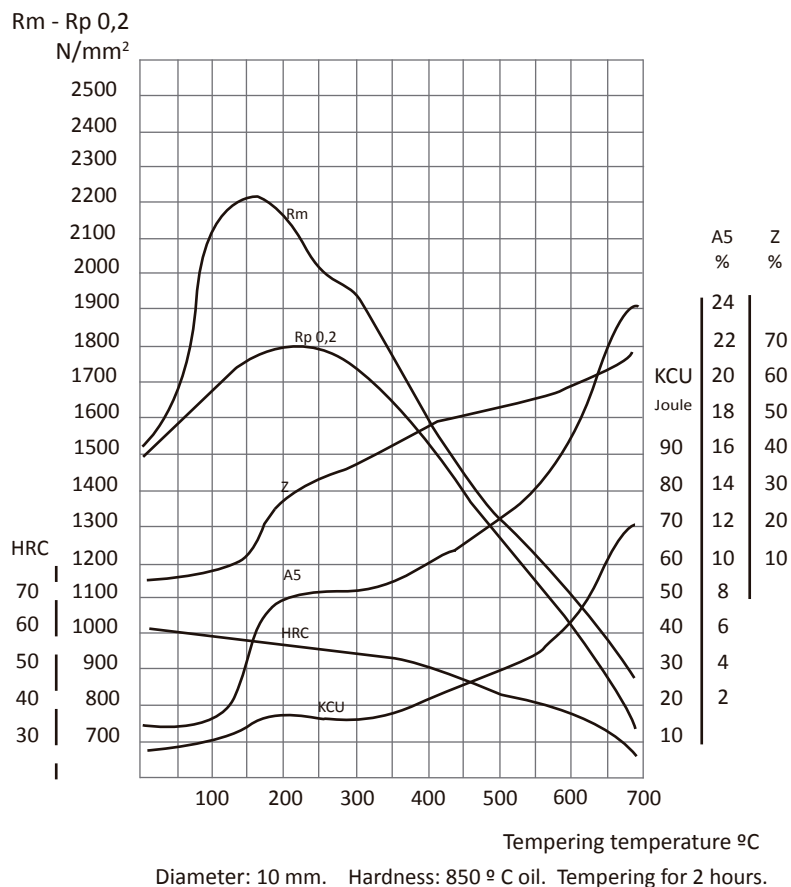
APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
51CrV4	51CrV4	1.8159	F1430		50CV4	735A50	50CrV4	6150	50XГФ

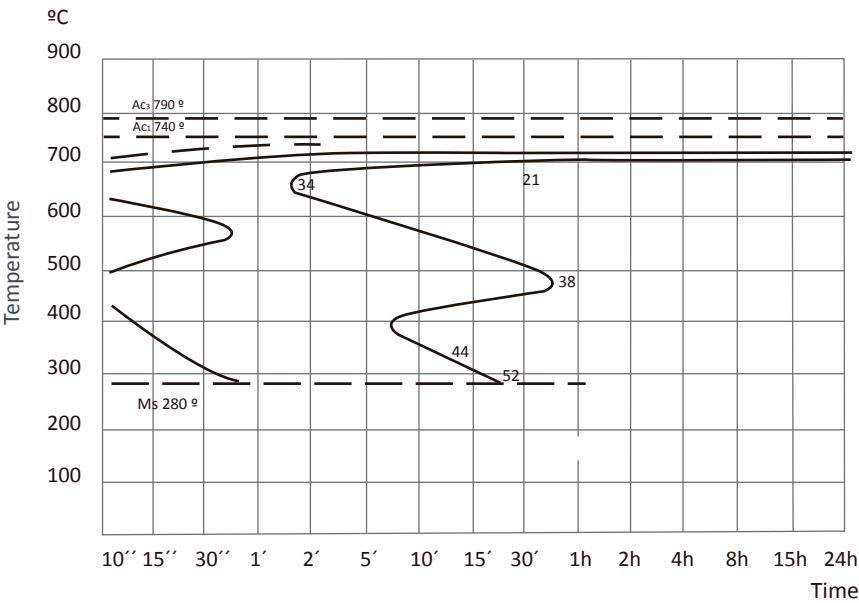
COLOUR CODE



TEMPERING DIAGRAM



TTT DIAGRAM



Dimensions of the test: Ø 8. Austenisation: 840 °C. 1/2 hour immerse.