

DELIVERY CONDITIONS

Quenched and tempered.

PROPERTIES AND MOST COMMON APPLICATIONS

Alloyed steel to be used in treated condition with a tensile strength of between 85-125 kg/mm².

Good shock and torsion stress resistance.

Its most common applications are for crankshafts, connection rods and medium size shafts.

DIMENSIONS IN STOCK MM.



Quenched and tempered: 20-505

APPLICABLE STANDARD

UNE 36-012-75

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	Cr	Mo	Ni
MIN	0,32	0,55	0,15			0,65	0,15	1,60
MAX	0,38	0,85	0,40	0,035	0,035	0,95	0,30	2,00

HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
640-670	820 - 840 Oil	540-660

MECHANICAL PROPERTIES

Mechanical properties at room temperature in quenched and tempered condition (+QT).

Dimensions		Re (N/mm ²)	Rm (N/mm ²)		A (%)	Z (%)	KV (J)	Guidance hardness
mm.		min.	min.	max.	min.	min.	min.	HB
≤ 16		930	1130	1320	11		29	331-388
> 16	≤ 40	830	1030	1220	11		29	302-363
> 40	≤ 100	690	880	1080	12		29	262-321
> 100	≤ 160	590	780	980	12		29	232-294
> 160	≤ 250	540	740	880	12		29	217-265
> 250	On request							

APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
	35NiCrMo7		F1270					4337	34xH2M

COLOUR CODE

