

DELIVERY CONDITIONS

As rolled.
Normalized

PROPERTIES AND MOST COMMON APPLICATIONS

Carbon steel with a medium tensile strength and a good weldability and tenacity.
Considering its mechanical properties it is a good substitute for C25 and C35.
Acceptable results in the case hardening of non-critical pieces.
Its most common applications are for bolts, chains, railway shafts, connection rods and metallic structures.

DIMENSIONS IN STOCK MM.



20-1010

APPLICABLE STANDARD

EN 10025-2

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	OTHERS
MIN						Cu. Max. 0,55
MAX	0,22	1,60	0,55	0,025	0,025	Al.Min. 0,020

HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
670-700	870 - 890 Water	480-650

MECHANICAL PROPERTIES

Mechanical properties at room temperature in normalized condition (+N).

Dimensions		Re (N/mm²)	Rm (N/mm²)		A (%)	KV MIN. (20 ° C)	Guidance hardness
mm.		min.	min.	máx.	min.	J	HB
≥ 3	≤ 16	355	470	630	22	27	146-187
> 16	≤ 40	345	470	630	22	27	146-187
> 40	≤ 63	335	470	630	21	27	146-187
> 63	≤ 80	325	470	630	20	27	146-187
> 80	≤ 100	315	470	630	20	27	146-187
> 100	≤ 150	295	450	600	18	27	143-179
> 150	≤ 200	285	450	600	17	27	143-179
> 200	≤ 250	275	450	600	17	27	143-179
> 250	≤ 400	265	450	600	-	27	143-179
> 400	On request						

APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
		1.0577	AE355D		A52FP			K12447	17Г1С

COLOUR CODE

