

DELIVERY CONDITION

As rolled.

PROPERTIES AND MOST COMMON APPLICATIONS

Pieces with a medium tensile strength and with good weldability and tenacity.

Acceptable results in the case hardening of non-critical pieces.

Its most common applications are for metallic structures (bridges, ...) , agricultural and railway machinery.

DIMENSIONS IN STOCK MM.

21,3x15,3x3 - 660x500x80

APPLICABLE STANDARD

EN 10297-1

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	V	Others
MIN						0,08	Al. min. 0,010 N. max. 0,020
MAX	0,22	1,60	0,55	0,030	0,035	0,015	Nb. max. 0,07

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/mm ²)	Rm min. (N/mm ²)	A (%) Long.	A (%) Trans.
mm.		min.	min.	min.	min.
≤ 16		335	490	17	15
> 16	≤ 40	345	490	17	15
> 40	≤ 65	335	490	17	15
> 65	≤ 80	315	470	17	15
> 80	≤ 100	295	470	17	15

APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
E355	E355	1.0580	ST52			CEW5	Fe510	1024	

COLOUR CODE