

## DELIVERY CONDITIONS

As rolled.  
Normalized.

## PROPERTIES AND MOST COMMON APPLICATIONS

Carbon steel with a tensile strength of between 60-80 kg/mm<sup>2</sup>.  
Induction hardened reaches 50-60 HRC. Not recommended for welding.  
Its most common applications are for agricultural machinery, sleeves, screws, connection rods, shafts and chains.

## DIMENSIONS IN STOCK MM.

			
19-1010	14-150	20x4 -810x150	Thickness 3-12

## APPLICABLE STANDARD

EN 10083-2

## CHEMICAL COMPOSITION

	C	Mn	Si	P	S	Cr	Mo	Ni	Others
MN	0,42	0,50							Cr+Mo+Ni Max. 0,63
MX	0,50	0,80	0,40	0,045	0,045	0,40	0,10	0,40	

## HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
670-710	830 - 850 Water 840 - 860 Oil	550-660

## MECHANICAL PROPERTIES

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

Dimensions	Re (N/mm <sup>2</sup> )	Rm (N/mm <sup>2</sup> )	A (%)
mm.	min.	min.	min.
≤ 16	340	620	14
> 16 ≤ 100	305	580	16
> 100 ≤ 250	275	560	16
> 250	On request		

## APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
C45	C45	1.0503	F1140	OLC45q	C45	080M46	C45	1045	45

## COLOUR CODE

