EN 10088-3:2023 (E)

Name Number of diameter between language of diameter between languages and languages	Steel designation		Thickness	Annealed				Quenched + tempered	tempered			
mm max. special grades 1.4029 $\leq 10^{e}$ 950 305 $+QT850$ 750 900 to 1100 8 1.4029 $\leq 10^{e}$ 950 305 $+QT850$ 750 900 to 1100 8 1.4029 $\leq 10^{e}$ 950 305 ≤ 000 700 900 to 1100 8 1.6 $\leq 10^{e}$ 950 280 650 850 to 1100 10 1.4035 $\leq 10^{e}$ 880 280 ≤ 50 850 to 1000 12 1.4035 $\leq 10^{e}$ 880 280 ≤ 50 ≤ 50 850 to 1000 12 1.4035 $\leq 10^{e}$ 880 280 ≤ 50	Name	Number	${f t}$ or diameter $^{ m b}$ d	R _m MPa	HBW ^c max.	Heat treatment condition	R _{p0,2} MPa	$R_{\rm m}$ MPa	A_5^{d}		KV_2	21
1.4029 $\leq 10^{\circ}$ 950 305 $+QT850$ 750 900 to 1100 8 1.4029 $\leq 10^{\circ}$ 950 305 $+QT850$ 750 900 to 1100 8 1.4029 $\leq 10^{\circ}$ 950 305 ≤ 50 850 to 1100 8 1.4029 $\leq 10^{\circ}$ 840 280 650 850 to 1100 8 1.4035 $\leq 10^{\circ}$ 880 280 1.4035 $\leq 10^{\circ}$ 800 250 1.4035 $\leq 10^{\circ}$ 800 250			_ mm	max.			min.		min.		min.	٠ نــ
									(long.)	(tr.)	(long.)	(tr.)
1.4029 $\leq 10^{\text{e}}$ 950 305 $+\sqrt{1850}$ 750 900 to 1100 8 10 < t \le 16 < t \le 40					Special g	rades						
	X29CrS13	1.4029	≤ 10 ^e	950	305	+QT850	750	900 to 1100	8	-	ı	'
$40 < t \le 40$ 900 280 650 850 to 1100 10 <			10 < t ≤ 16	950	305		200	900 to 1100	8	-		
			$16 < t \le 40$	006	280		650	850 to 1100	10	-	-	-
			$40 < t \le 63$	840	260		650	850 to 1050	10	-	,	
1.4035 $\leq 10e$ 880 280 -			63 < t ≤ 160	800	245		650	850 to 1000	12	-	-	-
880 280 800 250 - - - - - - - -	X46CrS13	1.4035	< 10e	088	280	ı	-	-	•	-	•	-
800 250 760 230			$10 < t \le 16$	088	280		-	-	•	-	,	-
760 230			$16 < t \le 40$	800	250		-			-	•	-
			$40 < t \le 63$	092	230		-	•	,	-	-	-

Including cut lengths from wire.

Width across flats for hexagons.

For information only.

Elongation A₅ is valid only for dimensions of 5 mm and above. For smaller diameters, the minimum elongation shall be agreed upon at the time of enquiry and order.

In the range 1 mm \leq d \leq 5 mm valid only for rounds. The mechanical properties of non-round bars with thicknesses \leq 5 mm shall be agreed at the time of enquiry and order.