



SLOVENSKI STANDARD
SIST EN 10277-2:2000/AC:2004
01-junij-2004

Svetli jekleni izdelki - Tehnični dobavni pogoji - 2. del: Jekla za splošne tehnične namene

Bright steel products - Technical delivery conditions - Part 2: Steels for general engineering purposes

Blankstahlerzeugnisse - Technische Lieferbedingungen - Teil 2: Stähle für allgemeine technische Verwendung

Produits en acier transformés a froid - Conditions techniques de livraison - Partie 2: Aciers d'usage général

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Ta slovenski standard je istoveten z: EN 10277-2:1999/AC:2003

ICS:

77.140.01	Železni in jekleni izdelki na splošno	Iron and steel products in general
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EUROPEAN STANDARD

EN 10277-2:1999/AC

NORME EUROPÉENNE

December 2003

EUROPÄISCHE NORM

Décembre 2003

Dezember 2003

ICS 77.140.20; 77.140.60

English version
Version Française
Deutsche Fassung

Bright steel products - Technical delivery conditions - Part 2: Steels for general engineering purposes

Produits en acier transformés à froid - Conditions techniques de
livraison - Partie 2: Aciers d'usage général

Blankstahlerzeugnisse - Technische Lieferbedingungen - Teil 2:
Stähle für allgemeine technische Verwendung

This corrigendum becomes effective on 17 December 2003 for incorporation in the English language version of the EN.

Ce corrigendum prendra effet le 17 décembre 2003 pour incorporation dans la version linguistique anglaise de l'EN.

Die Berichtigung tritt am 17. Dezember 2003 zur Einarbeitung in der Englischen Sprachfassung der EN in Kraft.

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SIST EN 10277-2:2000/AC:2004

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 10277-2:1999/AC:2003 (E)

English version

Table 3 shall read as follows:

Table 3 — Mechanical properties¹⁾

Designation		Thickness ²⁾ mm	Mechanical properties ²⁾				
Steel name	Steel number		As rolled + turned (+SH) ³⁾		Cold drawn (+C)		
			Hardness ⁴⁾ HB	R_m N/mm ²	$R_{p0,2}$ ⁵⁾ N/mm ² min.	R_m ⁵⁾ N/mm ²	A_5 % min.
S235JRG2C	1.0122	> 5 ≤ 10	-	-	355	470 to 840	8
		> 10 ≤ 16	-	-	300	420 to 710	9
		> 16 ≤ 40	102 to 140	340 to 470	260	390 to 690	10
		> 40 ≤ 63	102 to 140	340 to 470	235	380 to 630	11
		> 63 ≤ 100	102 to 140	340 to 470	215	340 to 600	11
E295GC	1.0533	> 5 ≤ 10	-	-	510	650 to 950	6
		> 10 ≤ 16	-	-	420	600 to 900	7
		> 16 ≤ 40	140 to 181	470 to 610	320	550 to 850	8
		> 40 ≤ 63	140 to 181	470 to 610	300	520 to 770	9
		> 63 ≤ 100	140 to 181	470 to 610	255	470 to 740	9
E335GC	1.0543	> 5 ≤ 10	-	-	540	700 to 1050	5
		> 10 ≤ 16	-	-	480	680 to 970	6
		> 16 ≤ 40	169 to 211	570 to 710	390	640 to 930	7
		> 40 ≤ 63	169 to 211	570 to 710	340	620 to 870	8
		> 63 ≤ 100	169 to 211	570 to 710	295	570 to 810	8
S355J2G3C	1.0569	> 5 ≤ 10	-	-	520	650 to 950	6
		> 10 ≤ 16	-	-	450	600 to 880	7
		> 16 ≤ 40	146 to 187	490 to 630	350	550 to 850	8
		> 40 ≤ 63	146 to 187	490 to 630	335	520 to 770	9
		> 63 ≤ 100	146 to 187	490 to 630	315	490 to 740	9
C10	1.0301	> 5 ≤ 10	-	-	350	460 to 760	8
		> 10 ≤ 16	-	-	300	430 to 730	9
		> 16 ≤ 40	92 to 163	310 to 550	250	400 to 700	10
		> 40 ≤ 63	92 to 163	310 to 550	200	350 to 640	12
		> 63 ≤ 100	92 to 163	310 to 550	180	320 to 580	12
C15	1.0401	> 5 ≤ 10	-	-	380	500 to 800	7
		> 10 ≤ 16	-	-	340	480 to 780	8
		> 16 ≤ 40	98 to 178	330 to 600	280	430 to 730	9
		> 40 ≤ 63	98 to 178	330 to 600	240	380 to 670	11
		> 63 ≤ 100	98 to 178	330 to 600	215	340 to 600	12
C16	1.0407	> 5 ≤ 10	-	-	400	520 to 820	7
		> 10 ≤ 16	-	-	360	500 to 800	8
		> 16 ≤ 40	105 to 184	350 to 620	300	450 to 750	9
		> 40 ≤ 63	105 to 184	350 to 620	260	400 to 690	11
		> 63 ≤ 100	105 to 184	350 to 620	235	360 to 620	12
C35	1.0501	> 5 ≤ 10	-	-	510	650 to 1000	6
		> 10 ≤ 16	-	-	420	600 to 950	7
		> 16 ≤ 40	154 to 207	520 to 700	320	580 to 880	8
		> 40 ≤ 63	154 to 207	520 to 700	300	550 to 840	9
		> 63 ≤ 100	154 to 207	520 to 700	270	520 to 800	9
C40	1.0511	> 5 ≤ 10	-	-	540	700 to 1000	6
		> 10 ≤ 16	-	-	460	650 to 980	7
		> 16 ≤ 40	163 to 211	550 to 710	365	620 to 920	8
		> 40 ≤ 63	163 to 211	550 to 710	330	590 to 840	9
		> 63 ≤ 100	163 to 211	550 to 710	290	550 to 820	9

Table 3 (continued)

Designation Steel name	Steel number	Thickness ²⁾ mm	Mechanical properties ²⁾				
			As rolled + turned (+SH) ³⁾		Cold drawn (+C)		
			Hardness ⁴⁾ HB	R_m N/mm ²	$R_{p0.2}$ ⁵⁾ N/mm ² min.	R_m ⁵⁾ N/mm ²	A_5 %
C45	1.0503	> 5 ≤ 10	-	-	565	750 to 1050	5
		> 10 ≤ 16	-	-	500	710 to 1030	6
		> 16 ≤ 40	172 to 242	580 to 820	410	650 to 1000	7
		> 40 ≤ 63	172 to 242	580 to 820	360	630 to 900	8
		> 63 ≤ 100	172 to 242	580 to 820	310	580 to 850	8
C50	1.0540	> 5 ≤ 10	-	-	590	770 to 1100	5
		> 10 ≤ 16	-	-	520	730 to 1080	6
		> 16 ≤ 40	181 to 269	610 to 910	440	690 to 1050	7
		> 40 ≤ 63	181 to 269	610 to 910	390	650 to 1030	8
		> 63 ≤ 100	181 to 269	610 to 910	-	-	-
C60	1.0601	≥ 5 ≤ 10	-	-	630	800 to 1150	5
		> 10 ≤ 16	-	-	550	780 to 1130	5
		> 16 ≤ 40	198 to 278	670 to 940	480	730 to 1100	6
		> 40 ≤ 63	198 to 278	670 to 940	-	-	-
		> 63 ≤ 100	198 to 278	670 to 940	-	-	-

1) This Standard does not include requirements.

2) For thicknesses < 5 mm, the mechanical properties may be agreed at the time of enquiry and order.

3) For this condition it is not necessary to choose the drawing qualities C. It is sufficient to use grades S235JRG2, E295, E335 and S355J2G3 instead.

4) For information only.

5) For flats the proof strength ($R_{p0.2}$) may deviate by -10% and the tensile strength (R_m) by ± 10%.

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