


<b>K-Standard</b>		<b>11000.0004</b>			
Issued by TLL	Authorized by MAO	Valid from 2017-02-20	Page 1(9)	Edition 7	
<b>Järn och stål, korsreferenstabell</b> <b>Iron and steel, cross reference table</b>					

### INNEHÅLL

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- 4 Förklaringar

### 1 ALLMÄNT

Denna K-standard är en riktlinje för översättning av europamaterial till andra utländska material.

K-standarden anger vilka externa standarder och materialbeteckningar som ersätter europa-, standard och materialbeteckning, som anges på ritningar.

Det är endast järn och stål material i tabellen som är beaktade.

Angivna dimensionsintervall skall följas.

### 2 EUROPA– KINA STANDARD

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- 1 General
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### 1 GENERAL

This K-standard is a guideline for translation of European material to other foreign material.


The K-standard specifies which external standards and material designations that replace European-, standard and material designation, which is specified on drawings.

It is only iron and steel material in the table which is taken into consideration.


Specified dimension interval shall be followed.

### 2 EUROPE– CHINA STANDARD


Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/ Europe		CN Kina/ China	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Gjutgods, Gråjärn Cast iron, Grey iron		EN 1561	EN-GJL-200	GB 9439	HT200
			EN-GJL-250		HT250
Gjutgods, Segjärn Cast iron, Spheroidal graphite cast iron		EN 1563	EN-GJS-400-15	GB 1348	QT400-15
			EN-GJS-500-7		QT500-7
			EN-GJS-600-3		QT600-3
Konstruktionsstål, Varmvalsat olegerat Structural steel, hot-rolled non-alloy	≤ 150	EN 10025-2	S235JR Ej lastbärande Non load carrier purpose	GB/T 700	Q235B Ej lastbärande Non load carrier purpose
	≤ 40		S355J0		GB/T 1591
	40 < t ≤ 100		S355J2+N		Q345D

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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/ Europe		CN Kina/ China		
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation	
Konstruktionsstål, varmvalsat olegerat för bockning  Structural steel, hot-rolled non-alloy for flanging	≤ 150	EN 10025-2	S235JRC Opt.11 <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>	GB/T 700	Q235B <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>	
	≤ 40		S355J0C Opt. 11		GB/T 1591	Q345C
	40 < t ≤ 100		S355J2C+N			Q345D
Konstruktionsstål, normaliserat valsade finkornstål  Structural steel, normalized rolled weldable fine grain	≤ 16 För bockning For flanging	EN 10025- 3	S355N Opt 11a	GB/T 1591	Q345D	
	≤ 100		S355N		Q345D	
	100 < t ≤ 150		S355NL		Q345E	
Konstruktionsstål termomekaniskt valsade stål  Structural steel, thermomechanical rolled weldable fin grain	≤ 100	EN 10025- 4	S420M	GB/T 1591	Q420D	
	100 < t ≤ 150		S420ML		Q420E	
Höghållfast konstruktionsstål, seghärdat, varmvalsat  High yield strength steel, quenched and tempered, hot rolled	≤ 16 För bockning For flanging	EN 10025- 6	S690Q Opt. 11a	GB/T 16270	Q690D Plate and wide flats with a nominal thickness ≤ 16 mm shall be suitable for flanging without cracking	
	≤ 80		S690Q		Q690D	
	80 < t ≤ 150		S690QL		Q690E	
Kallvalsat stål för kallformning  Cold-rolled steel for cold forming	≤ 3	EN 10130	DC01Am	GB/T 5213	SC1 + Anoljade Oiled condition	
			DC04Am		SC3 + Anoljade Oiled condition	

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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/ Europe		CN Kina/ China	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Höghållfasta kallformningsstål  High yield strength steel for cold forming	≤ 20	EN 10149 - 2	S355MC Opt. 2 , 5	GB/T 1591	Q345D
Olegerade seghärtningsstål  Quenched and tempered non-alloy steel	d ≤ 160	EN 10083 - 2	C45E+QT <u>Ej lastbärande</u> <u>Non load carrier purpose</u>	GB/T 699	45+QT c) (near at hand) <u>Ej lastbärande</u> <u>Non load carrier purpose</u>
Legerade seghärtningsstål  Quenched and tempered alloy steel		EN 10083-3	25CrMoS4+QT +XX d)	GB/T 3077	30CrMo+QT c) +XX d)
			42CrMoS4+QT +XX d)		42CrMo+QT c) +XX d)
			34CrNiMo6+QT +XX d)		40CrNiMoA+QT c) +XX d)
Sätthärtningsstål Case hardened steels		EN 10084	20MnCr5	GB 3077	20CrMnTi
			16NiCr4	-	-
			20NiCrMo2-2	GB/T 3077	20NiCrMo
			17NiCrMo6-4	-	-
			18CrNiMo7-6	GB/T 17107	17Cr2Ni2Mo
Blanka stålprodukter  Bright steel products		EN 10277 - 3	11SMnPb30+C	GB/T 8731	Y15Pb + Kalldragen Cold drawn

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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/ Europe		CN Kina/ China	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Varmbearbetade Konstruktionsrör av olegerat stål och finkornsstål  Hot finished structural hollow sections of non-alloy and fine grain structural steel	t ≤ 10	EN 10210 - 1	S355J0H Opt. 1.2	GB/T 1591	Q345C + CEV a) CEV ≤ 0,45
	10 < t ≤ 35		S355J2H Opt. 1.2		Q345D + CEV a) CEV ≤ 0,45
	----- 35 < t ≤ 65				Q390D + CEV a) CEV ≤ 0,47
	10 < t ≤ 35 ----- 35 < t ≤ 65		S355NH Opt. 1.4		Q345D + CEV a) CEV ≤ 0,43 ----- Q390D + CEV a) CEV ≤ 0,45
Kallformade svetsade konstruktionsrör av olegerat stål och finkornstål  Cold formed welded structural hollow sections of non-alloy and fine grain structural steel	t ≤ 10	EN 10219 - 1	S355J0H Opt. 1.2	GB/T 1591	Q345C + CEV a) CEV ≤ 0,45
	10 < t ≤ 35		S355J2H Opt. 1.2		Q345D + CEV a) CEV ≤ 0,45
	----- 35 < t ≤ 40				Q390D + CEV a) CEV ≤ 0,47
	10 < t ≤ 35 ----- 35 < t ≤ 40		S355NH Opt. 1.4		Q345D + CEV a) CEV ≤ 0,43 ----- Q390D + CEV a) CEV ≤ 0,45
Olegerade stålrör för svetsning eller gängning  Non-alloy steel tubes suitable for welding or threading	t ≤ 6	EN 10255	S195T <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>	GB/T 699 ----- GB/T 700	20 ----- Q235B <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>
Svetsade precisionsstålrör kalldragna  Welded cold drawn precision steel tubes		EN 10305 - 3	E235+N	GB/T 699 ----- GB/T 700	20 ----- Q235B

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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/ Europe		CN Kina/ China	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Rostfritt stål, platta produkter  Stainless steel, flat products		EN 10088 - 2	1.4301	GB/T 3280 GB/T 4237  Alt. Japan JIS G 4303, 4305	06Cr19Ni10  Alt. Japan SUS304
			1.4307 1.4306	GB/T 3280 GB/T 4237  Alt. Japan JIS G 4303, 4305	00Cr19Ni10  Alt. Japan SUS304L
Rostfritt stål, långa produkter  Stainless steel, longitudinal products		EN 10088 - 3	1.4301	GB/T 1220  Alt. Japan JIS G 4303, 4318	06Cr19Ni10  Alt. Japan SUS304
			1.4307 1.4306	GB/T 1220  Alt. Japan JIS G 4303, 4318	00Cr19Ni10  Alt. Japan SUS304L
			1.4305	GB/T 1220 GB/T 4226  Alt. Japan JIS G 4303, 4318	YCr18Ni9  Alt. Japan SUS303

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3 EUROPA – AMERIKA STANDARD

3 EUROPE – AMERICA STANDARD

Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/Europe		USA America		
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation	
Gjutgods, Gråjärn Cast iron, Grey iron		EN 1561	EN-GJL-200	ASTM A48	30B	
			EN-GJL-250		35B	
Gjutgods, Segjärn Cast iron,  Sferoidal graphite cast iron		EN 1563	EN-GJS-400-15	ASTM A536	60-40-18	
			EN-GJS-500-7		65-45-12	
			EN-GJS-600-3		80-55-06	
Konstruktionsstål, Varmvalsat olegerat  Structural steel, hot-rolled, non-alloy	≤ 150	EN 10025-2	S235JR <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>	ASTM A36M	A36M <u>Ej lastbärande</u> <u>Non load carrier purpose</u>	
	≤ 40		S355J0		ASTM A572M	Grade 50 +XX e) + CEV a) XX= 27J/0°C CEV ≤ 0,45 @ t ≤ 30 ----- CEV ≤ 0,47 @ t > 30
	40 < t ≤ 100		S355J2+N		ASTM A572M	Grade 50 +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,45 @ t ≤ 30 ----- CEV ≤ 0,47 @ t > 30
Konstruktionsstål, Varmvalsat, olegerat för bockning  Structural steel, hot-rolled, non-alloy for flanging	≤ 150	EN 10025-2	S235JRC Opt.11 Ej lastbärande Non load carrier purpose	ASTM A36M	A36M Ej lastbärande Non load carrier purpose	
	≤ 40		S355J0C Opt. 11		ASTM A572M	Grade 50 +XX e) + CEV a) XX= 27J/0°C CEV ≤ 0,45 @ t ≤ 30 ----- CEV ≤ 0,47 @ t > 30


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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/Europe		USA America	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Konstruktionsstål, varmvalsat, olegerat för bockning  Structural steel, hot-rolled, non-alloy for flanging	40 < t ≤ 100	EN 10025-2	S355J2C+N Opt. 11	ASTM A572M	Grade 50 +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,45 @ t ≤ 30 ----- CEV ≤ 0,47 @ t > 30
Konstruktionsstål, normaliservalsade finkornstål  Structural steel, normalized rolled weldable fine grain	≤ 16 För bockning For flanging	EN 10025- 3	S355N Opt. 11a	ASTM A633M	Grade C +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,43 Add. Requirement: Flangeability, 2 times the nominal thickness with the axis of the bend in transverse direction and 2,5 times the nominal thickness in longitudinal direction
	≤ 100		S355N		Grade C +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,43 @ t ≤ 63 ----- CEV ≤ 0,45 @ t > 63
	100 < t ≤ 150		S355NL		Grade C +XX e) + CEV a) XX= 27J/-40°C CEV ≤ 0,45 Tilläggskrav: Add. Requirement: R <sub>eL</sub> b) 100 < t ≤ 150 = 295 N/mm <sup>2</sup>

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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/Europe		USA America	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Konstruktionsstål termomekaniskt valsade stål  Structural steel, thermomechanical rolled weldable fin grain	≤ 100	EN 10025 - 4	S420M	ASTM A572M	Grade 60 +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,43 @ t ≤ 16 ----- CEV ≤ 0,45 @ 16<t ≤40 ----- CEV ≤ 0,46 @ 40<t ≤63 ----- CEV ≤ 0,46 @ 63<t ≤100  Tilläggskrav: Add. Requirement: R <sub>eL</sub> b) 32 < t ≤ 60 = 390 N/mm <sup>2</sup> R <sub>eL</sub> b) 60 < t ≤ 95 = 370 N/mm <sup>2</sup> R <sub>eL</sub> b) 95 < t ≤ 100 = 359 N/mm <sup>2</sup>
	100<t ≤150		S420ML		Grade 60 +XX e) + CEV a) XX= 27J/-40°C Samma krav ang CEV samt tilläggskrav Same req re CEV and also Add Req
Höghållfasta kallformningsstål  High yield strength steel for cold forming	t ≤ 6	EN 10149 -2	S355MC Opt. 2	ASTM A656M	Grade 50 + CEV a) CEV ≤ 0,45
	6 < t ≤ 20		S355MC Opt. 2, 5		Grade 50 +XX e) + CEV a) XX= 27J/-20°C CEV ≤ 0,45



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Typ av Material Type of material	Tjocklek Thickness (mm)	EU Europa/Europe		USA America	
		Standard	Materialbeteckning Material designation	Standard	Materialbeteckning Material designation
Olegerade seghärtningsstål  Quenched and tempered non alloy steel		EN 10083-2	C45E+QT <u>Ej lastbärande</u> <u>Non load carrier</u> <u>purpose</u>	ASTM A29M	1045+QT c) <u>Ej lastbärande</u> <u>Non load carrier purpose</u>
Legerade seghärtningsstål  Quenched and tempered alloy steel		EN 10083- 3	25CrMoS4+QT +XX d)	ASTM A29M	4130+QT c) +XX d)
			42CrMoS4+QT +XX d)		4140+QT c) +XX d)
			34CrNiMo6+QT +XX d)		4340+QT c) +XX d)
Rostfritt stål, platta produkter  Stainless steel, flat products		EN 10088 - 2	1.4301	ASTM A240M	UNS S 30400/ AISI Type 304
			1.4307 1.4306		UNS S 30403/ AISI Type 304L
Rostfritt stål, långa produkter  Stainless steel, longitudinal products		EN 10088 - 3	1.4301	ASTM A276M	UNS S 30400/ AISI Type 304
			1.4307 1.4306		UNS S 30403/ AISI Type 304L
			1.4305	ASTM A582M	UNS S 30300/ AISI Type 303

<p><b>4 FÖRKLARINGAR</b></p> <p>a) Kolekvivalent b) Min. Sträckgräns c) Produkterna skall leveras i seghärdat tillstånd (+QT) med mekaniska egenskaper enligt översatt EU-material i K-standard 11026.0001. d) Min. erforderlig slagenergi (J) enligt angivet värde på ritning, ex. 27J/-20°C. e) Min. erforderlig slagenergi (J) enligt angivet värde i tabell, ex. 27J/-20°C.</p>	<p><b>4 EXPLANATIONS</b></p> <p>a) Carbon equivalent b) Minimum Yield point c) The products shall be delivered in quenched and tempered condition (+QT) with mechanical properties according to translated EU-material in K-standard 11026.0001. d) Minimum requisite energy (J) according to specified value on drawing, e.g. 27J/-20°C. e) Minimum requisite energy (J) according to specified value in table, e.g. 27J/-20°C.</p>
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