

STEEL PRODUCTS Catalogue 2024



Mada Trade co.



REBAR AND WIRE ROD

STEEL PRODUCTS

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☐ REBAR IN BUNDLE

➤ Produced Sizes

Steel produces plain and deformed reinforcing steel bars in bundle form from size Ø 10 mm to Ø 40 mm as follows:

Diameter (mm)	10	12	14	16	18	20
	22	25	28	30	32	40

Any special size from Ø 10 mm to Ø 40 mm can be produced with 0.5 mm increment in diameter according to customer request.

➤ Rebar Length

Rebar is produced with length of 6 m up to 24 m according to customer request. Standard produced bar length is 12 m.

➤ Bundle Weight

Steel produces bundles with uniform number of bars per bundle size-wise. Weight of each bundle is about 2.0 tons for standard bar length of 12 m. Bundle weight varies between 1.0 and 4.0 ton according to bundle length.

➤ Bundle Packaging

Compact packaging with six double ties of 7 mm wire for standard length of 12 m. For other bar lengths, number of ties ranges from 4 to 9 according to bar length.

☐ REBAR IN COIL

➤ Produced Sizes

Plain and deformed reinforcing steel bars in coil form are available as follows:

Plain rebar in coil:

Diameter (mm)	5.5	6	6.5	7	7.5	8
	8.5	9	9.5	10	10.5	11
	11.5	12	12.5	13	13.5	14
	14.5	15	15.5	16		



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➤ Deformed rebar in coil:

Diameter (mm)	6	8	10	12	14	16
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Any special size from Ø 6.0 mm to Ø 16.0 mm can be produced with 0.5 mm increment in diameter according to customer request.

➤ Coil Weight

About 2.0 tons.

➤ Coil Dimensions

Inner diameter: 800–850 mm. Outer diameter: 1,200–1,250 mm. Coil height: 2,000 mm maximum (varies with produced size).

➤ Coil Packaging

Compact packaging with 4 ties of 7 mm wire. Ties are either single or double according to size, destination and customer request. Bellyband is applied for export shipments.

☐ PRODUCIBLE STANDARDS

➤ Egyptian Standards

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV (1)	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	Agt (%)
B240A-P										1.02		2
B240B-P										1.08		5
B240C-P	–	–	–	0.06	0.06	–	–	240	–	1.15	20	7
B240D-P	–	–	–	0.05	0.05	–	–	240	520 max.	1.25	22	8
B300A-P										1.02		2
B300B-P										1.08		5
B300C-P	–	–	–	0.06	0.06	–	–	300	–	1.15	16	7
B300D-P	–	–	–	0.05	0.05	–	–	300	600 max.	1.25	19	8
B420D-P												
B420DWP	0.3	0.55	1.5	0.04	0.04	0.012	0.56	420–540	–	1.25	16	8

ES: 262 – 1/2015, ISO: 6935 – 1:2007



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Standard ES: 262 – 2/2015, ISO: 6935 – 2:2007

REBAR

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV ⁽¹⁾	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to	El. (%)	A ₅₀ (%)
B300A-R										1.02		2
B300B-R										1.08		5
B300C-R	–	–	–	0.06	0.06	–	–	300	–	1.15	16	7
B300D-R	–	–	–	0.05	0.05	–	–	300				
B300DWR	0.27	0.55	1.5	0.04	0.04	0.012	0.49	300–390	–	1.25	17	8
B350DWR	0.27	0.55	1.6	0.04	0.04	0.012	0.51	350–455	–	1.25	17	8
B400A-R										1.02		2
B400B-R										1.08		5
B400C-R	–	–	–	0.06	0.06	–	–	400	–	1.15	14	7
B400AWR										1.02		2
B400BWR										1.08		5
B400CWR	0.22	0.6	1.6	0.05	0.05	0.012	0.5	400	–	1.15	14	7
B400DWR	0.29	0.55	1.8	0.04	0.04	0.012	0.56	400–520	–	1.25	17	8
B420DWR	0.3	0.55	1.5	0.04	0.04	0.012	0.56	420–546	–	1.25	16	8
B500A-R										1.02		2
B500B-R										1.08		5
B500C-R	–	–	–	0.06	0.06	–	–	500	–	1.15	14	7
B500AWR										1.02		2
B500BWR										1.08		5
B500CWR	0.22	0.6	1.6	0.05	0.05	0.012	0.5	500	–	1.15	14	7
B500DWR	0.32	0.55	1.8	0.04	0.04	0.012	0.61	500–650	–	1.25	13 ⁽²⁾	8

➤ International Standards : ISO 6935 – 1:2007

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV ⁽¹⁾	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to	El. (%)	A ₅₀ (%)
B240A-P										1.02		2
B240B-P										1.08		5
B240C-P	–	–	–	0.06	0.06	–	–	240	–	1.15	20	7
B240D-P	–	–	–	0.05	0.05	–	–	240	520 max.	1.25	22	8
B300A-P										1.02		2
B300B-P										1.08		5
B300C-P	–	–	–	0.06	0.06	–	–	300	–	1.15	16	7
B300D-P	–	–	–	0.05	0.05	–	–	300	600 max.	1.25	19	8
B420D-P	0.3	0.55	1.5	0.04	0.04	0.012	0.56	420–540	–	1.25	16	8



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➤ International Standards : ISO 6935 – 2:2019

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV ⁽¹⁾	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to El. (%) ⁽¹⁾	A ₅₀ (%)	
B300A-R										1.02	2	
B300B-R										1.08	5	
B300C-R	-	-	-	0.06	0.06	-	-	300	-	1.15	16	7
B300D-R	-	-	-	0.05	0.05	-	-	300	-	-	-	-
B300DWR	0.27	0.55	1.5	0.04	0.04	0.012	0.49	300-390	-	1.25	17	8
B350DWR	0.27	0.55	1.6	0.04	0.04	0.012	0.51	350-455	-	1.25	17	8
B400A-R										1.02	2	
B400B-R										1.08	5	
B400C-R	-	-	-	0.06	0.06	-	-	400	-	1.15	14	7
B400D-R	0.29	0.55	1.6	0.04	0.04	-	0.55	400-520	-	1.25	17	8
B400AWR										1.02	2	
B400BWR										1.08	5	
B400CWR	0.22	0.6	1.6	0.05	0.05	0.012	0.5	400	-	1.15	14	7
B400DWR	0.29	0.55	1.8	0.04	0.04	0.012	0.56	400-520	-	1.25	17	8
B420DWR	0.3	0.55	1.5	0.04	0.04	0.012	0.56	420-546	-	1.25	16	8
B450AWR										1.05	2.5	
B450CWR	0.22	-	-	0.05	0.05	0.012	0.5	450-562	-	1.15	-	7.5
B500A-R										1.02	2	
B500B-R										1.08	5	
B500C-R	-	-	-	0.06	0.06	-	-	500	-	1.15	14	7
B500D-R	0.32	0.55	1.8	0.04	0.04	-	0.6	500-625	-	1.25	13	8
B500AWR										1.02	2	
B500BWR										1.08	5	
B500CWR	0.22	0.6	1.6	0.05	0.05	0.012	0.5	500	-	1.15	14	7
B500DWR	0.32	0.55	1.8	0.04	0.04	0.012	0.61	500-650	-	1.25	13 ⁽²⁾	8

➤ American Standards: ASTM A615M -16

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to El. (%) ⁽¹⁾	A ₅₀ (%)	
Grade 40								280	420	-	11-12	-
Grade 60								420	620	-	7-9	-
Grade 75								520	690	-	-	-
Grade 80	-	-	-	0.06	-	-	-	550	725	-	-	-
Grade 100								690	790	-	6-7	-



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➤ **American Standards: ASTM A615M -18ε1**

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to El. (%) ⁽¹⁾	A ₅₀ (%)	
Grade 40								280	420		11-12	
Grade 60								420	620		7-9	
Grade 80	-	-	-	0.06	-	-	-	550	725	-	-	
Grade 100								690	790		6-7	

➤ **American Standards: ASTM A706M -16**

Grade	Chemical Composition (Maximum %)							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV ⁽²⁾	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile Yield Ratio to El. (%) ⁽¹⁾	A ₅₀ (%)	
Grade 60								420-540	550		10-14	
Grade 80	0.3	0.5	1.5	0.035	0.045	-	0.55	550-675	690	1.25	10-12	



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➤ **American Standards: ASTM A510M -18**

Grade	Chemical Composition (%) ⁽¹⁾				
	C	Si ⁽²⁾	Mn	P Max.	S Max.
AISI 1006	0.08 max.		0.25–0.45	0.04	0.05
AISI 1008	0.10 max.		0.30–0.50	0.04	0.05
AISI 1010	0.08–0.13		0.30–0.60	0.04	0.05
AISI 1012	0.10–0.15		0.30–0.60	0.04	0.05
AISI 1013	0.11–0.16		0.50–0.80	0.04	0.05
AISI 1015	0.13–0.18		0.30–0.60	0.04	0.05
AISI 1018	0.15–0.20		0.60–0.90	0.04	0.05
AISI 1022	0.18–0.23		0.70–1.00	0.04	0.05
AISI 1023	0.20–0.25		0.30–0.60	0.04	0.05
AISI 1025	0.22–0.28		0.30–0.60	0.04	0.05
AISI 1030	0.28–0.34		0.60–0.90	0.04	0.05
AISI 1037	0.32–0.38		0.70–1.00	0.04	0.05
AISI 1042	0.40–0.47		0.60–0.90	0.04	0.05
AISI 1045	0.43–0.50		0.60–0.90	0.04	0.05
AISI 1050	0.48–0.55		0.60–0.90	0.04	0.05
AISI 1055	0.50–0.60		0.60–0.90	0.04	0.05
AISI 1059	0.55–0.65		0.50–0.80	0.04	0.05
AISI 1060	0.55–0.65		0.60–0.90	0.04	0.05
AISI 1064	0.60–0.70		0.50–0.80	0.04	0.05
AISI 1065	0.60–0.70		0.60–0.90	0.04	0.05
AISI 1070	0.65–0.75		0.60–0.90	0.04	0.05

(1) If required, copper can be specified as 0.20% minimum.

(2) Where silicon is required, one of the following ranges and limits are commonly specified: (max 0.10%), (0.10–0.20%), (0.15–0.35%), (0.15–0.40%), or (0.20–0.40%).



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British Standard: BS: 4449/2005 + A3:2016

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Grade	Chemical Composition (Maximum %) ⁽¹⁾							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	A _{gt} (%)
B500A										1.05 ⁽²⁾	-	2.5 ⁽³⁾
B500B										1.08	-	5
B500C	0.22	-	-	0.05	0.05	0.012	0.5	500-650	-	≥ 1.15, < 1.35	-	7.5

(1) Maximum copper content = 0.80%.

(2) For sizes below 8 mm, the tensile strength to yield strength ratio is 1.02.

(3) For sizes below 8 mm, A_{gt} is 1.0%.

French Standards: NF A 35-016: 1996

Grade	Chemical Composition (Maximum %) ⁽¹⁾							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	A _{gt} (%)
FeE500-2										1.03	-	2.5
FeE500-3	0.22	-	-	0.05	0.05	0.012	0.5	500	-	1.08	-	5

French Standards: NF A 35-080-1: 2013

Grade	Chemical Composition (Maximum %) ⁽¹⁾							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	A _{gt} (%)
B500A										1.05	-	2.5
B500B								500-650	-	1.08	-	5
B450B	0.22	-	-	0.05	0.05	0.012	0.5	450-585	-	1.08	-	5
B450C								450-562	-	1.15-1.35	-	7.5

(1) Maximum copper content = 0.80%.

Canadian Standard: CSA G30.18-09 (R2019)

Grade	Chemical Composition (Maximum %) ⁽¹⁾							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV ⁽¹⁾	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	A _{gt} (%)
400R								400	540	1.15	7-10	-
500R				0.05				500	675	1.15	6-9	-
400W								400-525	540	1.15	12-13	-
500W	0.3	0.5	1.6	0.035	0.045	-	0.55	500-625	625	1.15	10-12	-

(1) Minimum elongation values depend on produced size.

Ukrainian Standard: DSTU 3760:2006

Grade	Chemical Composition (Maximum %) ⁽¹⁾							Mechanical Properties (Minimum)				
	C	Si	Mn	P	S	N	CEV	Yield Strength (MPa)	Tensile Strength (MPa)	Tensile to Yield Ratio	El. (%)	A _{gt} (%)
A400S							0.25-0.52	400	500	1.05	16	5
A500S	0.25	-	-	0.045	0.05	0.012	0.30-0.52	500	600	1.05	14	5

(1) Maximum arsenic content = 0.08%.



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☐ PHYSICAL CHARACTERISTICS OF BUNDLES

➤ Bar Weight per Unit Length

TABLE 2 – DIMENSIONS, WEIGHT PER UNIT LENGTH AND UNIT WEIGHT TOLERANCE

Diameter (mm) (1)	Nominal Unit Weight (kg/m) (2)	Steel Standard		
		Unit Weight Tolerance (%) (3)	Number of Bars/ Bundle	Maximum Bundle Weight (kg) (4)
10	0.617	94.5–97.5	270	1,949
12	0.888	94.5–97.5	188	1,953
14	1.21	95.5–98.0	138	1,964
16	1.58	95.5–98.0	105	1,951
18	2	95.5–98.0	83	1,952
20	2.47	95.5–98.0	67	1,946
22	2.98	95.5–98.0	56	1,963
25	3.85	96.5–98.5	43	1,957
28	4.84	96.5–98.5	34	1,945
32	6.31	96.5–98.5	26	1,939
40	9.86	96.5–98.5	17	1,981

(1) Any special size from Ø 10 mm to Ø 40 mm can be produced according to customer request.

(2) Unit weights are according to Egyptian and international standards.

(3) For more customer satisfaction: typical unit weight for the local market is on the negative side of the Egyptian standard acceptable limits.

(4) Maximum Bundle Weight in case of standard bar length of 12 m.

➤ Length, Weight and Packaging Bar lengths from 6 m up to 24 m are producible. Bundle weight varies with the bar length as shown in Table 3.

TABLE 3 – PRODUCIBLE LENGTHS, BUNDLE WEIGHT AND PACKAGING

Ser.	Bundle Length (m)	Maximum Bundle Weight (kg)	No. of Double Ties
1	6	991	4
2	10	1,651	5
3	12	1,981	6
4	14	2,311	6
5	16	2,641	7
6	18	2,972	8
7	24	3,962	9



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➤ SIZES

WIRE ROD

Wire rod from size Ø 5.5 mm to size Ø 16 mm as follows:

Diameter (mm)	5.5	6	6.5	7	7.5	8	8.5	9
	9.5	10	10.5	11	11.5	12	12.5	13
	13.5	14	14.5	15	15.5	16		

➤ COIL WEIGHT

About 2.0 tons.

➤ COIL DIMENSIONS

Inner diameter: 800–850 mm. Outer diameter: 1,200–1,250 mm.

Coil height: 2,000 mm maximum (varies with produced size).

➤ COIL PACKAGING

Compact packaging with 4 ties of 7 mm wire.

Ties are single or double according to size, destination, and customer request.

Bellyband is applied for export shipments.

➤ APPLICATIONS

a range of low, medium and high carbon steel wire rod for industrial applications according to international standards.

➤ Wire Rod for Welded Steel Fabric

Wire rod to be used for making cold-drawn concrete reinforcement bars and welded steel fabric.

➤ Wire Rod for Welding Electrodes

Wire rod for producing welding electrodes according to DIN 8557 S2 or AISI 1008 with special silicon and manganese levels.

➤ Wire Rod for Cable Armouring

Wire rod for cable armouring which is used in underground projects in order to protect the electric cables from mechanical damage

➤ Drawing-Grade Wire Rod

Wire rod to be used for drawing wires for various applications. Typical exemplary applications are listed in Table 1.



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LONG PRODUCTS

WIRE ROD

TABLE 1 – TYPICAL EXEMPLARY APPLICATIONS OF PRODUCED DRAWING-GRADE WIRE ROD

Grades	Representative Grades	Application
Low carbon	AISI (1006, 1008, 1010, 1012, 1013, 1015, 1018, 1020, 1022)	Barbed wire, nails, refrigerator condenser, refrigerator shelves, coated wires for fences, steel wool, galvanized drawn wire, cooker's pots holders.
Medium carbon	AISI (1025, 1030, 1037, 1038, 1042, 1045)	Nails, bolts, galvanized drawn wire, spring fastening (mattress component).
High carbon	AISI (1050, 1055, 1059, 1060, 1064, 1065, 1070)	Mattress spring (upholstery), sling wire rope, galvanized drawn wire, electric cables reinforcing.



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❖ STANDARDS

WIRE ROD

- American Standard: ASTM A510M – 18
- International/European Standard: EN ISO 16120-2:2017
- Japanese Standard: JIS G 3507-1:2010
- Other standards can be produced upon customer request. Please contact sales team for details.
- American Standard: ASTM A510M – 18

Grade ^(1,2)	Chemical Composition (%) ^(3,4)				
	C	Si ⁽⁵⁾	Mn	P Max.	S Max.
AISI 1006	0.08 max.		0.25-0.45	0.04	0.05
AISI 1008	0.10 max.		0.30-0.50	0.04	0.05
AISI 1010	0.08-0.13		0.30-0.60	0.04	0.05
AISI 1012	0.10-0.15		0.30-0.60	0.04	0.05
AISI 1013	0.11-0.16		0.50-0.80	0.04	0.05
AISI 1015	0.13-0.18		0.30-0.60	0.04	0.05
AISI 1018	0.15-0.20		0.60-0.90	0.04	0.05
AISI 1022	0.18-0.23		0.70-1.00	0.04	0.05
AISI 1023	0.20-0.25		0.30-0.60	0.04	0.05
AISI 1025	0.22-0.28		0.30-0.60	0.04	0.05
AISI 1030	0.28-0.34		0.60-0.90	0.04	0.05
AISI 1037	0.32-0.38		0.70-1.00	0.04	0.05
AISI 1042	0.40-0.47		0.60-0.90	0.04	0.05
AISI 1045	0.43-0.50		0.60-0.90	0.04	0.05
AISI 1050	0.48-0.55		0.60-0.90	0.04	0.05
AISI 1055	0.50-0.60		0.60-0.90	0.04	0.05
AISI 1059	0.55-0.65		0.50-0.80	0.04	0.05
AISI 1060	0.55-0.65		0.60-0.90	0.04	0.05
AISI 1064	0.60-0.70		0.50-0.80	0.04	0.05
AISI 1065	0.60-0.70		0.60-0.90	0.04	0.05
AISI 1070	0.65-0.75		0.60-0.90	0.04	0.05

(1) AISI steel grades are used for industrial applications. Mechanical properties are to be agreed upon with the customer.

(2) Wire rod for producing welding electrodes can be produced according to DIN 8557 S2 or AISI 1008 with special silicon and manganese levels.

(3) If required, copper can be specified as 0.20% minimum.

(4) The chemical composition can be modified according to customers' needs.

(5) Where silicon is required, one of the following ranges and limits are commonly specified: (max 0.10%), (0.10-0.20%), (0.15-0.35%), (0.15-0.40%) or (0.20-0.40%).



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➤ International/European Standard EN ISO 16120-2:2017

Grade	European Material No.	Chemical Composition (%) (1, 2, 3)							
		C	Si (4)	Mn	P max.	S max.	Cr max.	Ni max.	Cu (5) max.
C4D	1.03	≤ 0.06	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C7D	1.0313	0.05-0.09	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C9D	1.0304	≤ 0.10	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C10D	1.031	0.08-0.13	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C12D	1.0311	0.10-0.15	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C15D	1.0413	0.12-0.17	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C18D	1.0416	0.15-0.20	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C20D	1.0414	0.18-0.23	≤ 0.30	0.30-0.60	0.035	0.035	0.2	0.25	0.3
C26D	1.0415	0.24-0.29	0.10-0.30	0.50-0.80	0.03	0.03	0.2	0.25	0.3
C32D	1.053	0.30-0.35	0.10-0.30	0.50-0.80	0.03	0.03	0.2	0.25	0.3
C38D	1.0516	0.35-0.40	0.10-0.30	0.50-0.80	0.03	0.03	0.2	0.25	0.3
C42D	1.0541	0.40-0.45	0.10-0.30	0.50-0.80	0.03	0.03	0.2	0.25	0.3
C48D	1.0517	0.45-0.50	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C50D	1.0586	0.48-0.53	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C52D	1.0588	0.50-0.55	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C56D	1.0518	0.53-0.58	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C58D	1.0609	0.55-0.60	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C60D	1.061	0.58-0.63	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C62D	1.0611	0.60-0.65	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C66D	1.0612	0.63-0.68	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C68D	1.0613	0.65-0.70	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C70D	1.0615	0.68-0.73	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25
C72D	1.0617	0.70-0.75	0.10-0.30	0.50-0.80	0.03	0.03	0.15	0.2	0.25

(1) Elements not included in this table may not be added intentionally to the steel without the agreement of the purchaser, except those intended for finishing the heat. By agreement at the time of ordering, the grades can contain additions (commonly termed micro-alloying additions) of Cr and V. The content of Cr is up to 0.30% and the content of V is 0.05% to 0.10%.

(2) %Mo (max.) = 0.05

(3) %Al (max.) = 0.01. By agreement at the time of ordering, the value for aluminium can be fixed at 0.01% to 0.06%. In such cases, the value of silicon can be fixed at ≤ 0.10% on request.

(4) For wire rod intended for galvanization, the required lower limit of silicon content should be specified at the time of ordering. By agreement at the time of ordering, the maximum silicon level for grades C4D to C20D may be further restricted.

(5) A maximum copper content of 0.20% may be agreed at the time of ordering. For steel grades C48D to C92D, Cu + Sn shall be ≤ 0.25%.



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