



## Range of metallurgical products

### 1. Pig Iron

- A. Basic Pig Iron PL1, PL2 according to GOST 805-95 (Standard group I, II, III; classes A and B; categories 2-5) in ingots 15 kg max of pyramidal form without pinches.
- B. Low Sulfur Pig Iron (Low Sulfur) according to GOST 805-95 in ingots 15 kg max of pyramidal form without pinches (S – 0.015% max)
- C. Foundry iron (available in limited quantities) L1-L6 according to GOST 4832-95 (Standard group I, II; classes A and B; categories 1-4)

### 2. Hot rolled steel bars

(Max length of hot rolled steel bars - 6000 mm.)

Description/Standard/Dimensions, mm	Steel grade / Standart	Technical requirement Standard
<b>Round rolled bars</b> <b>GOST 2590-88</b> <b>diameter</b> 12, 12,5, 13, 14, 14,5, 15, 16, 17, 18, 18,5, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 33, 34, 36, 38, 40, 42, 44, 45, 47, 48, 50, 52, 53, 54, 55, 56, 57, 60, 62, 65, 67, 70, 72, 75, 77, 80	St0-St6 – <b>GOST 380-94</b> ; 10-60 - <b>GOST 1050-88</b> ; 15X, 20X, 30X, 35X, 40X, 45X, 18XГТ, 25XГТ, 30XГТ, 15-50Г, 12XH3A, 20XH3A, 40XH, 30XГСА, 35XГСА, 20XHP, 20XГHP, 45XH, 33XC, 38XC - GOST 4543-71; 65Г, (55C2, 55C2A, 60C2, 60C2A, 60C2Г diam. up to 34мм) <b>GOST 14959-79</b> ; 09Г2С – <b>GOST 19281-89</b> ; Y7- Y12 – <b>GOST 1435-99</b> ; 25Г2 – <b>TY Y 332-2344-90-96</b> ; S235, S275, S355 (JO, JR, J2G3, J2G4) - <b>EN 10025</b> ; A36/A36M – ASTM A36/A36M, 09Г2, 09Г2С – <b>GOST 19281-89</b>	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП GOST 4543-71, group of surface quality 2-3, GOST 19281-89; GOST 14959-79, category 1, 3, 3Б, 4; GOST 1435-99 group 3ГП; TY Y 332-234-90-96
<b>Square rolled bars</b> <b>GOST 2591-88</b> 12, 12,7, 14, 16, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60	St0-St6 - <b>GOST 380-94</b> ; 10-50 – <b>GOST 1050-88</b> ; 35XГСА, 15X-40X - <b>GOST 4543-71</b> ; S235, S275, S355(JO, JR, J2G3, J2G4) - <b>EN 10025</b> ; A36/A36M – ASTM A36/A36M; 55C2, 55C2A, 60C2A- <b>GOST 14959-79</b>	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality, 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3, GOST 14959-79, category 1, 3, 3Б
<b>Flat bars</b> <b>GOST 103-76</b> 20x8, 10, 12; 22x6, 8, 10, 12; 25x5, 6, 8, 10, 12, 14, 16, 20; 30x5, 6, 7, 8, 10, 12, 16, 18, 20; 32x12, 18, 20, 25; 36x6, 10, 12, 14, 16, 18, 20; 40x6, 7, 8, 10, 12, 14, 16, 18, 20, 25; 45x6, 8, 10, 12, 14, 16, 18, 20, 22, 25; 50x6, 7, 8, 10, 12, 30; 56x32, 36; 60x6, 7, 8, 10, 12, 18, 25, 32; 65x6, 7, 8, 10, 12; 75x10, 12; 80x16, 30, 40; 90x9, 10, 12, 14, 16, 18, 25, 30, 40; 100x7, 8, 10, 11, 12, 14, 16; 102x10.5, 12, 14, 16; 110x7, 8, 9, 10, 11, 12, 14, 16; 120x7, 8, 9, 10, 11, 12, 14, 16; 130x7, 8, 9, 10, 11, 12, 14, 16; 140x7, 8, 9, 10, 11, 12, 14, 16; 150x7, 8, 9, 10, 12, 14, 16; 160x7, 8, 10, 12;	St0-St6 - <b>GOST 380-94</b> ; 10-50 – <b>GOST 1050-88</b> ; 40XH, 45XH, 65Г, 15X-40X, 18XГТ-30XГТ, 12XH3A, 20XHP, 20XГHP, 20XH3A, 30-35XГСА – <b>GOST 4543-71</b> ; Y7, Y8 – <b>GOST 1435-90</b> ; 65Г, 55C2, 55C2A, 60C2, 60C2A, 50XГ, 50XГA – <b>GOST 14959-79</b> ; 60C2XГ – <b>TY Y 14-2-1205-98</b> ; 40P – <b>TY 14-1-248-95</b> ; 09Г2С <b>GOST 19281-89</b> ; S235, S275, S355(JO, JR, J2G3, J2G4) - <b>EN 10025</b> ; A36/A36M – <b>ASTM A36/A36M</b>	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3; GOST 14959-79, category 1, 3, 3Б, 4, 4Б; GOST1435-99; TY/TC 14-1-248-95, 14-2-1205-98

Hexagonal section bars <b>GOST 2879-88</b> 14, 17, 19, 21, 22, 24, 25, 27, 28, 36, 41, 43, 46, 47, 52	St0-St6 - <b>GOST 380-94</b> ; 10-50 – <b>GOST 1050-88</b> ; 15X-45X <b>GOST – 4543-71</b> ; S235JR, S275JR – <b>EN 10025</b> ; <b>A36/A36M</b> – ASTM A36/A36M	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3
Asymmetrical bulb flat for ship-building <b>GOST 21937-76</b> 6, 7, 8, 9, 10	A, B, A32, D32, A40S <b>GOST 5521-93</b>	GOST 5521-93
Symmetrical bulb flat for ship-building <b>GOST 9235-76</b>  1035	A; B; A32; D32 <b>GOST 5521-93</b>	GOST 5521-93
Equal angle <b>GOST 8509-93</b> 25x25x4, 45x45x5, 50x50x6, 63x63x6, 75x75x7	St0-St6 - <b>GOST 380-94</b> ; S235JR, S275JR – <b>EN 10025</b> , A36/A36M – <b>ASTM A36/A36M</b>	GOST 535-88 category 1-5, group I
Trapeziform spring strip <b>TY Y 332-234-96-99</b> 45x6, 45x6,5	50XГA - <b>TY Y 332-234-96-99</b>	TY Y 332-234-96-99, (not heat-treated, optional hardness, not straightened)
T-type spring strip <b>TY Y 14-2-1205-98</b> 90x63x18x7,2; 100x70x16x6	60C2XГ - <b>TY Y 14-2-1205-98</b>	TY Y/TC 14-2-1205-98
Spring strip <b>TY Y 322-234-96-99</b> 55x7, 65x7	50XГ, 50XГA – <b>TY Y 322-234-96-99</b>	TY Y 322-234-96-99, (without annealing, optional hardness, not straightened)
Spring strip (with round edges) <b>TY 14-1-3829-84 33*5,5</b> TY Y27.100191164-105-2003 32*10	55C2, 60C2, 60C2A <b>GOST 14959-79</b>	TY 14 -1-3829-84 GOST 14959-79 (without annealing, optional hardness, not straightened)
Chute spring rolled bars <b>GOST/GOST 7419-90</b> 76x10, 76x13, 89x13, 120x16	55C2, 55C2A, 60C2, 60C2A - <b>GOST 14959-79</b>	GOST 14959-79 category 1,3, 3Б,4,4Б; GOST 7419-90
Rolled bars for shares with solid thickness <b>TY 14-2-760-87 105C</b>	Л53 <b>TY 14-2-760-87</b>	TY Y 14-2-760-87
Rolled bars for blades of digging equipment <b>GOST/GOST 17152-89</b> 155x12x3	St5 - <b>GOST 380-94</b> ; 65Г - <b>GOST 14959-79</b>	GOST 17152-89
Double T-shapes for hinge points №8 TY Y 27.1-00190319-1304-2003 <b>81,3x35x6</b>	30XГCA – <b>GOST 4543-71</b>	TY Y 27.1-00190319-1304-2003
Profile for conveyer scraper <b>TY Y 77-096-172-2001</b> 60x35x12	СТ6 <b>GOST 380-94</b>	GOST 535-88 group II
Beetcutting knife <b>TY Y 322-234-94-98</b> 97x8,8x5,9	Y7, Y8 – <b>GOST 1435-99</b>	TY/TC Y 322-234-94--98
Strip rolled bars for machine components <b>TY 14-1-341-72; 26x21</b>	45 - <b>GOST 1050-88</b>	TY/TC 14-1-341-72
Strip rolled bars for cultivator <b>TY Y 27.1-00191164-99-2003</b> B x A, мм 60x14мм	St0-St6 – <b>GOST 380-94</b> ; 10-50 – <b>GOST 1050-88</b>	GOST 535-88 category 1-5, group I-III GOST 1050-88 group of surface quality 2ГП, 3ГП
Strip rolled bars for machine-building applications <b>TY Y 27.1-00191164-60-2003</b> BxA, мм 90x20 100x20 120x20 140x20 160x14	<b>St0-St6 – GOST 380-94</b>  <b>10-50 – GOST 1050-88</b>  15X-45X, 40XH, 45XH, 18XГТ-30XГТ, 30XГCA-35XГCA <b>GOST 4543-71</b>	GOST 535-88 category 1-5, group I-III GOST 1050-88 group of surface quality 2ГП, 3ГП GOST 4543-71 group of surface quality 2-3
Rolled bars for reinforcement of steel-concrete constructions <b>GOST/GOST 5781-82</b> № 12, 14, 18, 20, 25 classes AI,All,AIII	St0-St6 – <b>GOST 380-94</b> ; 35ГC – <b>GOST 5781-82</b>	GOST 5781-82

X-strips TY 14-2-649-85	65Г GOST 14959-79 20X, 40X, 45X GOST 4543-71	ГОСТ 14959-79 category 1
Rolled bars for rail road application TY Y 27.1- 00191164-102-2001	St4 GOST 380-94	GOST 535-88 group I
Steel profiles for tillage mechanisms 142C1 TY Y 332-234-98-2000	50 - GOST 1050-88 TY 14-2-760-87	GOST 1050-88 TY 14-2-760-87

### 3. Hot rolled steel plates

(Delivery in the state «after rolling», without thermal treatment within indicated dimensions and enclosed table of possible length)

Hot rolled steel plates with thickness 5-6mm and with width 2000mm can be produced in limited quantities.  
For hot rolled steel plates with thickness 5mm - flatness normal (III) according to GOST 19903-74.

#### A. Hot rolled steel plates with the dimensions rolling according to GOST 19903-74

Description / Type	*Dimensions, mm			Technical requirement Standard	Standard /Steel grade
	thickness s	width	length		
<b>Ordinary rolled plates</b>					
Hot rolled steel plates made from normal strength carbon steel of plain quality	5-20	1250-2000	3000-L*	GOST 14637-89	<b>GOST 380-94:</b> St0, St2sp1, St2sp2, St3sp1, St3sp2, St3sp3, St3sp4, St3sp5, St4sp3, St5sp1, St5sp2.
<b>Constructional rolled plates</b>					
Hot rolled constructional steel plates made of increased strength steel  - class of strength 265, 295, 315, 325, 345; category 1-4, 8, 10-12	5-20	1250-2000	3000-L*	GOST 19281-89	<b>GOST 19281-89:</b> 09Г2, 09Г2Д, 16ГС, 17ГС, 14Г2; 09Г2С, 09Г2СД, 17Г1С, 10Г2С1, 10Г2С1Д; 10ХСНД, 15ХСНД;
<b>Rolled plates for boilers and vessels working under pressure</b>					
Hot rolled steel plates for boilers and vessels working under pressure  - category (normal strength for carbon steel) 2, 3, 4, 10 - category (increased strength for low-alloyed steel) 2, 3, 4, 10, 11, 12	5-20	1250-2000	3000-L*	GOST 5520-79	<b>GOST 5520-79:</b>  15K, 20K  09Г2С, 10Г2С1, 16ГС
<b>Rolled plates for shipbuilding</b>					
- normal strength steel - normal strength steel - increased strength steel - increased strength steel - increased strength steel - increased strength steel	6-20 6-16 6-20 6-16 6-20 6-16	1300-2000 1300-1850 1300-1850 1300-1850 1300-1850	3000-L*	GOST 5521-93	<b>GOST 5521-93:</b> A, B D A27s D27s A32 D32
<b>Rolled plates for shipbuilding certified according to Russian Marine Register of Shipping</b>					
Hot rolled steel plates for shipbuilding according to the rules and under the supervision of Russian Marine Register of Shipping (PC)				Russian	<b>GOST 5521-93:</b>

- normal strength steel - normal strength steel - increased strength steel - increased strength steel	6-20 6-16 6-20 6-16	1300- 2000 1300- 1850 1300- 1850 1300- 1850	3000-L*	Marine Register of Shipping	PCA, PCB PCD PCA32 PCD32
<b>Rolled grooved plates for shipbuilding</b>					
- normal strength steel	8; 10; 12	1400;160 0	6000- 8000	TY Y 27.1- 00190319- 1263-2001	<b>GOST 5521-93,</b> <b>GOST 380-94</b> A, PCA, СтЗсп
<b>High quality constructional rolled plates</b>					
- high quality constructional carbon steel / Alloyed steel / spring alloyed steel	5-20 5-20 5-20 9-20 7	1250- 2000 1300- 1600 1300- 1600 1300- 1600 1400	3000-L* 3000-L* 3000-L* 6000- 7000 6000	GOST 1577-93 ref. 4.1.3 / 4.1.7. GOST 1577-93 GOST1577-93 TY14-1- 140975 TY Y 332-234- 92-98	<b>GOST 1050-88:</b> 10, 15, 20; 25; 30, 35, 40, 45, 50 <b>GOST 14959-79:</b> 60, 65, 70, 65Г, 65ГА, 70Г, 55С2, 55С2А, 60С2, 60С2А <b>GOST 4543-71:</b> 15Г, 20Г 30Г, 40Г, 50Г, 10Г2, 35Г2, 20Х, 40Х <b>GOST 4543-71:</b> 30ХГСА; 30ХГСА 35Г2Р (with or/and without cutting of edges)

#### B. Hot-rolled general purpose and constructional steel plates according to International Standards

Description / Type	*Dimensions, mm			Standard	Standard / Steel grade
	thickness	width	length		
<b>Constructional hot rolled steel plates made from non-alloyed killed steel</b>	5-20	1250- 2000	3000-L*	ASTM A6/A6M	ASTM A36/A36M: A36/A36M
<b>Constructional hot rolled steel plates made from non-alloyed steel of low and intermediate yield point</b>	5-20	1250- 2000	3000-L*	ASTM A6/A6M	ASTM A283 / A283M:C
<b>Constructional hot rolled steel plates for shipbuilding made from killed steel of normal tensile strength</b>	6-20	1300- 2000	3000-L*	ASTM A6/A6M	ASTM A131 / A131M:A
<b>Constructional hot rolled steel plates made from non-alloyed killed steel</b>  - normal strength steel - increased strength steel - increased strength steel	6-20	1250- 2000	3000-L*	DIN EN 10025	<b>DIN EN 10025:</b> S235: JR, JRG2, JO, J2G3, J2G4, JRC, JRG2C, JOC, J2G3C, J2G4C S275: JR, JO, J2G3, J2G4, JRC, JOC, J2G3C, J2G4C S355: JR, JO, J2G3, J2G4, JRC, JOC, J2G3C, J2G4C
<b>Constructional hot rolled steel plates made from non-alloyed steel of normal strength</b>	5-20	1250- 2000	3000-L*	JIS G 3193	<b>JIS G 3101:</b> SS400
<b>Hot rolled steel plates for shipbuilding made from non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of Germanischer Lloyd (GL)</b>	6-20	1300- 2000	3000-L*	DIN EN 10029 EN 10163	<b>Germanischer Lloyd:</b> GL-A, GL-B

<p><b>Hot rolled steel plates for shipbuilding made from constructional non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of French Bureau Veritas (BV)</b></p>	6-20	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p><b>French Bureau Veritas:</b></p> <p>BV A, BV B</p>
<p><b>Hot rolled steel plates for shipbuilding made from constructional non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of Det Norske Veritas (DNV)</b></p>	6-20	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p><b>Det Norske Veritas:</b></p> <p>NVA</p>
<p><b>Hot rolled steel plates for shipbuilding made from non-alloyed killed steel manufactured according to the rules and under the supervision of English Lloyd's Register (LR)</b></p> <ul style="list-style-type: none"> <li>- normal strength steel</li> <li>- normal strength steel</li> <li>- increased strength steel</li> <li>- increased strength steel</li> <li>- increased strength steel</li> <li>- increased strength steel</li> </ul>	<p>6-20</p> <p>6-16</p> <p>6-20</p> <p>6-16</p> <p>6-20</p> <p>6-16</p>	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p><b>Lloyd's Register:</b></p> <p>LRA, LRB LRD LRAH 27s LRDH 27s LRAH 32 LRDH 32</p>
<p><b>Constructional hot rolled steel plates made from non-alloyed steel of normal strength steel for boilers and vessels certified according to Lloyd's Register for working at room temperature</b></p> <ul style="list-style-type: none"> <li>- category 360AR, 410AR</li> </ul>	5-16	1250-1850	3000-L*	ASTM A6/A6M	<p><b>Lloyd's Register:</b></p> <p>360AR, 410AR</p>

**Possible length (L\*) of the hot rolled steel plates on rolling mill 2300, m**

Thickness MM	width, MM															
	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
5				6,0	6,0	6,0	6,0	6,0								
5,5				6,0	6,0	6,0	6,0	6,0								
6	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0			
6,5	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0			
7	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	6,0	6,0	6,0
7,5	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	6,0	6,0	6,0
8	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
8,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
9	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	13,5	12,0	<b>12,0</b>
9,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0</b>	<b>12,0/11,6</b>
10	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0</b>	<b>12,0/11,6</b>	11,7/11,3	11,4/11,0
10,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0</b>	<b>12,0/11,7</b>	11,7/11,3	11,4/11,0	11,1/10,7	10,8/10,5
11	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0/11,8</b>	11,8/11,4	11,4/11,1	11,1/10,8	10,8/10,5	10,5/10,2	10,2/10,0
11,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	11,9/11,6	11,5/11,2	11,2/10,9	10,9/10,6	10,6/10,3	10,3/10,0	10,0/9,7	9,7/9,5
12	12,0	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0/11,8</b>	11,6/11,3	11,2/10,9	10,9/10,6	10,6/10,3	10,3/10,0	10,0/9,7	9,7/9,5	9,5/9,2
12,5	12,0	12,0	12,0	12,0	12,0	<b>12,0</b>	<b>12,0/11,7</b>	11,6/11,3	11,1/10,8	10,7/10,5	10,4/10,1	10,1/10,0	9,8/9,6	9,6/9,3	9,3/9,1	9,1/8,8
13	12,0	12,0	12,0	12,0	<b>12,0</b>	11,9/11,6	11,5/11,2	11,1/10,8	10,6/10,4	10,3/10,0	10,0/9,7	9,7/9,5	9,4/9,2	9,2/9,0	8,9/8,7	8,7/8,5
13,5	12,0	12,0	12,0	<b>12,0</b>	11,8/11,5	11,4/11,2	11,0/10,7	10,6/10,4	10,2/10,0	9,9/9,6	9,6/9,3	9,3/9,1	9,0/8,8	8,8/8,6	8,5/8,3	8,3/8,1
14	12,0	12,0	<b>12,0</b>	11,8/11,6	11,4/11,1	11,0/10,7	10,6/10,3	10,2/10,0	9,8/9,6	9,5/9,3	9,2/9,0	8,9/8,7	8,7/8,5	8,4/8,2	8,2/8,0	8,0/7,8
14,5	12,0	<b>12,0</b>	11,9/11,7	11,4/11,2	10,9/10,7	10,6/10,4	10,2/10,0	9,8/9,6	9,4/9,2	9,1/9,0	8,8/8,6	8,6/8,5	8,4/8,2	8,1/8,0	7,9/7,7	7,7/7,5
15	<b>12,0</b>	<b>12,0/11,8</b>	11,5/11,2	11,0/10,8	10,5/10,3	10,2/10,0	9,8/9,6	9,5/9,3	9,1/9,0	8,8/8,6	8,5/8,3	8,3/8,1	8,1/8,0	7,8/7,6	7,6/7,5	7,4/7,2
15,5	<b>12,0/11,8</b>	11,6/11,4	11,1/10,9	10,6/10,5	10,2/10,0	9,8/9,6	9,5/9,3	9,2/9,0	8,8/8,6	8,5/8,3	8,2/8,1	8,1/8,0	7,8/7,6	7,6/7,5	7,3/7,2	7,1/7,0
16	11,6/11,4	11,2/11,0	10,7/10,5	10,2/10,1	9,8/9,6	9,5/9,3	9,1/9,0	8,8/8,7	8,4/8,3	8,2/8,0	7,9/7,8	7,7/7,5	7,5/7,3	7,3/7,1	7,1/7,0	6,9/6,7
16,5	11,2/11,0	10,7/10,5	10,3/10,1	9,8/9,7	9,5/9,3	9,1/9,0	8,8/8,6	8,6/8,5	8,1/8,0	7,9/7,7	7,6/7,5	7,4/7,3	7,2/7,1	7,1/7,0	6,8/6,7	6,6/6,5
17	10,8/10,6	10,4/10,2	10,0/9,8	9,5/9,4	9,2/9,0	8,8/8,7	8,6/8,5	8,2/8,1	7,9/7,7	7,6/7,5	7,4/7,3	7,2/7,0	7,0/6,8	6,8/6,6	6,6/6,5	6,4/6,3
17,5	10,5/10,3	10,1/9,9	9,7/9,5	9,2/9,1	8,9/8,7	8,6/8,4	8,3/8,1	8,0/7,8	7,6/7,5	7,4/7,3	7,2/7,0	7,0/6,8	6,7/6,6	6,6/6,5	6,4/6,2	6,2/6,1
18	10,2/10,0	9,8/9,6	9,4/9,2	8,9/8,8	8,6/8,5	8,3/8,2	8,0/7,9	7,7/7,6	7,4/7,3	7,2/7,0	6,9/6,8	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0
18,5	9,9/9,7	9,5/9,3	9,1/9,0	8,7/8,6	8,4/8,2	8,1/7,9	7,8/7,6	7,5/7,4	7,2/7,0	6,9/6,8	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0	
19	9,6/9,5	9,3/9,1	8,9/8,7	8,4/8,3	8,1/8,0	7,8/7,7	7,6/7,4	7,3/7,2	7,0/6,8	6,7/6,6	6,6/6,5	6,4/6,3	6,2/6,1	6,1/6,0		
19,5	9,3/9,2	9,0/8,8	8,6/8,5	8,2/8,1	7,9/7,8	7,6/7,5	7,3/7,2	7,1/7,0	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0			
20	9,1/9,0	8,7/8,6	8,4/8,2	8,1/ 8,0	7,7/7,6	7,4/7,3	7,1/7,0	6,9/6,8	6,6/6,5	6,4/6,3	6,2/6,1	6,1/6,0				

\*Length:

Numerator – for GOST 19903-74 and for classes A, D according to EN 10029;

Denominator – for Registers Rules (PC, LR, GL, BV, NV), ASTM A6/A6M and classes B, C according to EN 10025

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