

## Structural Heat-Treatable Alloy Steel

EN 10083-3, DIN		ASTM/AISI	GOST
1.7003	38Cr2		38X
1.7006	46Cr2		46X
1.7033	34Cr4	5130	34X
1.7037	34CrS4		34X-Y
1.7034	37Cr4		37X
1.7038	37CrS4		37X-Y
1.7035	41Cr4	5140	41X
1.7039	41CrS4		41X-Y
1.7218	25CrMo4	4130	25XM
1.7213	25CrMoS4		25XM-Y
1.7220	34CrMo4	4137	34XM
1.7226	34CrMoS4		34XM-Y
1.7225	42CrMo4	4140	42XM
1.7227	42CrMoS4		42XM-Y
1.7228	50CrMo4	4150	50XM
1.7264	20CrMo5		25X1ГМ
1.6582	34CrNiMo6	4340	34X2H2M
1.6580	30CrNiMo8	4340	30X2H2M
1.8519	31CrMoV9		30X3MΦ
1.5815	35NiCr6		35XH1
1.6511	36CrNiMo4	9840	36XHМ
1.6773	36NiCrMo16		36X2H4MA
1.8509	41CrAlMo7		38X2MIOA
1.6510	39NiCrMo3	9840	39XHМ
1.6747	30NiCrMo16-6		30X1H4M
1.6565	40CrNiMo6	4340	40X2H2MA
1.0913	50Mn7	1552	50Г2
1.8159	51CrV4	6150	50XГΦ

## Structural Heat-Treatable Non-Alloy Steel

EN 10083-2		ASTM/AISI	GOST
1.1151	C22E	1020	20
1.1149	C22R		20-Y
1.1181	C35E	1035	35
1.1180	C35R		35-Y
1.1186	C40E	1040	40
1.1189	C40R		40-Y
1.1191	C45E	1045	45
1.1201	C45R		45-Y
1.1206	C50E	1050	50
1.1241	C50R		50-Y
1.1203	C55E	1055	55
1.1209	C55R		55-Y
1.1221	C60E	1060	60
1.1223	C60R		60-Y
1.1170	28Mn6		28Г

## Structural Non-Alloy Steel

EN 10025		ASTM/AISI	GOST
1.0045	S355JR		20Г1С
1.0553	S355J0		17Г1С
1.0577	S355J2		17Г1С-Y2

## Structural High-Strength Steel

DIN EN 10273, DIN EN 10269, DIN		ASTM/AISI	GOST
1.5415	16Mo3	F1	18M
1.7335	13CrMo4-5	F12	13XM
1.7380	10CrMo9-10	F22	15X2M1
1.7390	X15CrMo5-1	F5	15X5M

## Spring Steel

EN 10089, DIN		ASTM/AISI	GOST
1.5028	65Si7	9260H	60C2Г
1.7108	60SiCr7	9262	60C2XA
1.7176	55Cr3	5155	55XГ
1.8161	58CrV4	6145, 6150	58XГФ

## Bearing Steel

DIN ISO 683-17		ASTM/AISI	GOST
1.3505	100Cr6	52100	ШХ15
1.3520	100CrMnSi6-4		ШХ15СГ
1.3536	100CrMo7-3		ШХ20М

## TOOL STEEL

### Tool Alloy Steel

DIN EN 4957		ASTM/AISI	GOST
1.2067	102Cr6	L1	X
1.2080*	X210Cr12*	D3*	X12*
1.2101	62SiMnCr4	S4	6XГC
1.2162	21MnCr5		20XГ
1.2210	115CrV3		XФ
1.2235	80CrV2	L2	8XФ
1.2235	80CrV2	L3	9XФ
1.2312	40CrMnMoS8-6		40X2ГМ
1.2316	X38CrMo16		40X16M
1.2343	X37CrMoV5-1	H11	4X5MФC
1.2581	X30WCrV9-3	H21	3X3B8Ф
1.2344	X40CrMoV5-1	H13	4X5MФ1C
1.2357	50CrMoV13-14	S7	5X3CM2Ф
1.2363	X100CrMoV5	A2	95X5ГМ
1.2365*	32CrMoV12-28*	H10*	3X3M3Ф*
1.2367	X38CrMoV5-3		4X5M3Ф
1.2379*	X153CrMoV12*	D2*	X12MФ*
1.2380*	X220CrVMo13-4*	D7*	X12MФ4*
1.2419	105WCr6		XBГ
1.2436*	X210CrW12*	D6*	X12B*
1.2510	100MnCrW4	O1	95XГBФ
1.2519	110WCrV5	O7	XBФ
1.2550	60WCrV8	S1	6XB2ФC
1.2714	55NiCrMoV6		5XH2MФ
1.2764	X19NiCrMo4		20XH4M
1.2842	90MnCrV8	O2	9Г2Ф

\* PM-method of manufacture is able

## Tool Carbon Steel

DIN EN 4957		ASTM/AISI	GOST
1.1520	C70U		Y7
1.1525	C80U	W108	Y8
1.1535	C90U	W109	Y9
1.1545	C105U	W110	Y10
1.1555	C120U	W112	Y12

## Tool High-Speed PM-Steel

DIN EN ISO		ASTM/AISI	Innovator Designation	GOST
HS 12-1-4-5-PM	1.3202-PM	T15-PM		P12MΦ4K5-МП
HS 10-4-3-10-PM	1.3207-PM	T42-PM		P10M4Φ3K10-МП
HS 6-5-2-8-PM	1.3222-PM	M36-PM	ASP 2030 (Erasteel*) CPM REX45 (Crucible*) S590-PM (Böhler*)	P6M5Φ3K8-МП
HS 6-5-2-5-PM	1.3243-PM			P6M5K5-МП
HS 2-9-1-8-PM	1.3247-PM	M42-PM		P1M10K8-МП
HS 18-1-2-5-PM	1.3255-PM	T4-PM		P18MΦ2K5-МП
HS 12-1-4-PM	1.3302-PM			P12MΦ4-МП
HS 12-1-2-PM	1.3318-PM			P12MΦ2-МП
HS 6-5-2C-PM	1.3343-PM	M2-PM		P6M5-МП
HS 6-5-3-PM	1.3344-PM	M3-PM	ASP 2023 (Erasteel*) S790-PM (Böhler*)	P6M5Φ3-МП
HS 2-9-1-PM	1.3346-PM	M1-PM		P2M9Φ-МП
HS 18-0-1-PM	1.3355-PM	T1-PM		P18-МП
			S390-PM (Böhler*)	P10M2Φ5K8-МП
HS 10-5-3-9-PM		M48-PM		P10M5Φ3K9-МП
			ASP 2053 (Erasteel*)	P4M3Φ8-МП
HS 6-7-6-10-PM	1.3241-PM		ASP 2060 (Erasteel*)	P6M7Φ6K10-МП
HS 0-4-1-PM	1.3551-PM	M50-PM		P0M4ΦC-МП
HS 2-9-2-PM	1.3348-PM	M7-PM		P2M9Φ2-МП
HS 6-5-4-PM	1.3351-PM	M4-PM	S690-PM (Böhler*)	P6M5Φ4-МП
HS 12-6-5-PM		M61-PM		P12M6Φ5-МП

\* Metal products of these steel grades shall be manufactured only on obtaining the written confirmation from this steel grade engineering company and owner of licence to use it.

## Tool Alloy PM-Steel

DIN EN ISO		ASTM/AISI	Innovator Designation	GOST
X210Cr12-PM	1.2080-PM	D3-PM		X12-МП
X153CrMoV12-PM	1.2379-PM	D2-PM		X12MΦ-МП
X220CrVMo13-4-PM	1.2380-PM	D7-PM	K190-PM (Böhler*)	X12MΦ4-МП
X60WCrMoV9-4-PM	1.2622-PM			6X4B9MΦ-МП
			K340-PM (Böhler*)	110X8M2ΦC-МП
			Vanadis 4-PM (Böhler*)	150X8M2Φ4C-МП
			CPM 9V (Crucible*)	P0M2CΦ9-МП
		A11-PM	CPM 10V (Crucible*)	P0M2CΦ10-МП

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## PRODUCT RANGE

### STAINLESS STEEL

Size, mm	Round				Square	
	Cold-Drawn (h11)*	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
2-11						
12-40						
41-80						
81-180						
181-190						
191-195						
196-400						
401-500						

### STRUCTURAL STEEL

Size, mm	Round				Square	
	Cold-Drawn (h11)*	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
2-11						
12-40						
41-80						
81-130						
131-180						
181-260						
261-450						
451-550						

### BEARING STEEL

Size, mm	Round				Square	
	Cold-Drawn (h11)*	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
2-11						
12-40						
41-80						
81-130						
131-180						
181-230						
231-250						
251-450						

\* Metal products can be manufactured only for the CIS market, or when agreed upon between the manufacturer and the customer.

## TOOL STEEL

Size, mm	Round				Square	
	Cold-drawn (h11)*	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
2-11						
12-40						
41-80						
81-130						
131-180						
181-400						
401-500						

\* Metal products can be manufactured only for the CIS market, or when agreed upon between the manufacturer and the customer.

## HIGH SPEED STEEL

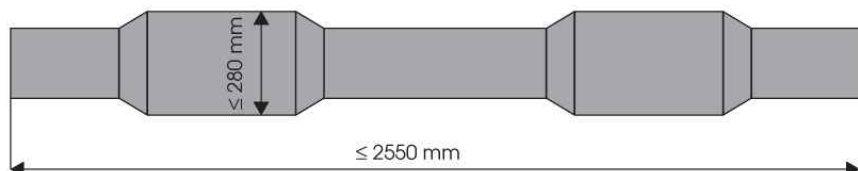
Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
2-11					
12-74					
75-80					
81-130					
131-180					

## TOOL AND HIGH-SPEED PM-STEEL

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
3-11					
12-73					
74-79					
80-89					
90-130					
131-350					
351-410					

## FORGED ROUGH BILLET FOR RAILWAY CAR AXLES WITH IRREGULAR SECTION

Billet weight up to 900 kg



## FORGED FLATS

Thickness, mm	Width, mm																
	80	90	100	110	120	130	140	150	160	200	300	350	400	500	600	700	800
30-55																	
60-75																	
80-85																	
90-95																	
100-105																	
110-115																	
120-125																	
130-135																	
140-145																	
150																	
155-250																	
255-300																	

### UTMOST DEVIATIONS FOR FORGED FLATS

Thickness, mm
30-64
65-89
90-150
151-250
251-300

Thickness, mm
+2,5/-0,0
+4,5/-0,0
+5,0/-0,0
+7,0/-0,0
+10,0/-0,0

Width, mm
80-119
120-179
180-214
215-249
250-284
285-344
345-350
351-600
601-800

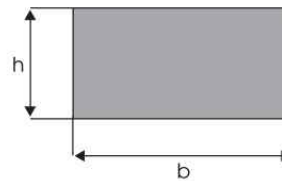
Width, mm
+4,0/-0,0
+5,0/-0,0
+7,0/-0,0
+8,0/-0,0
+9,0/-0,0
+10,0/-0,0
+12,0/-0,0
+15,0/-0,0
+20,0/-0,0

### UTMOST DEVIATIONS FOR HOT-ROLLED FLATS

Width, mm
+2,0/-0,0

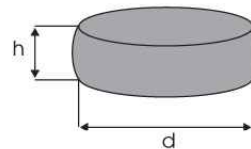
Thickness, mm
+0,6/-0,0

### HOT-ROLLED FLATS



Size, mm
h = 6-12
b = 40-70

### FORGED DISCS



Size, mm
h = 120-300
d = 330-1100

## CONTACT DETAILS

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