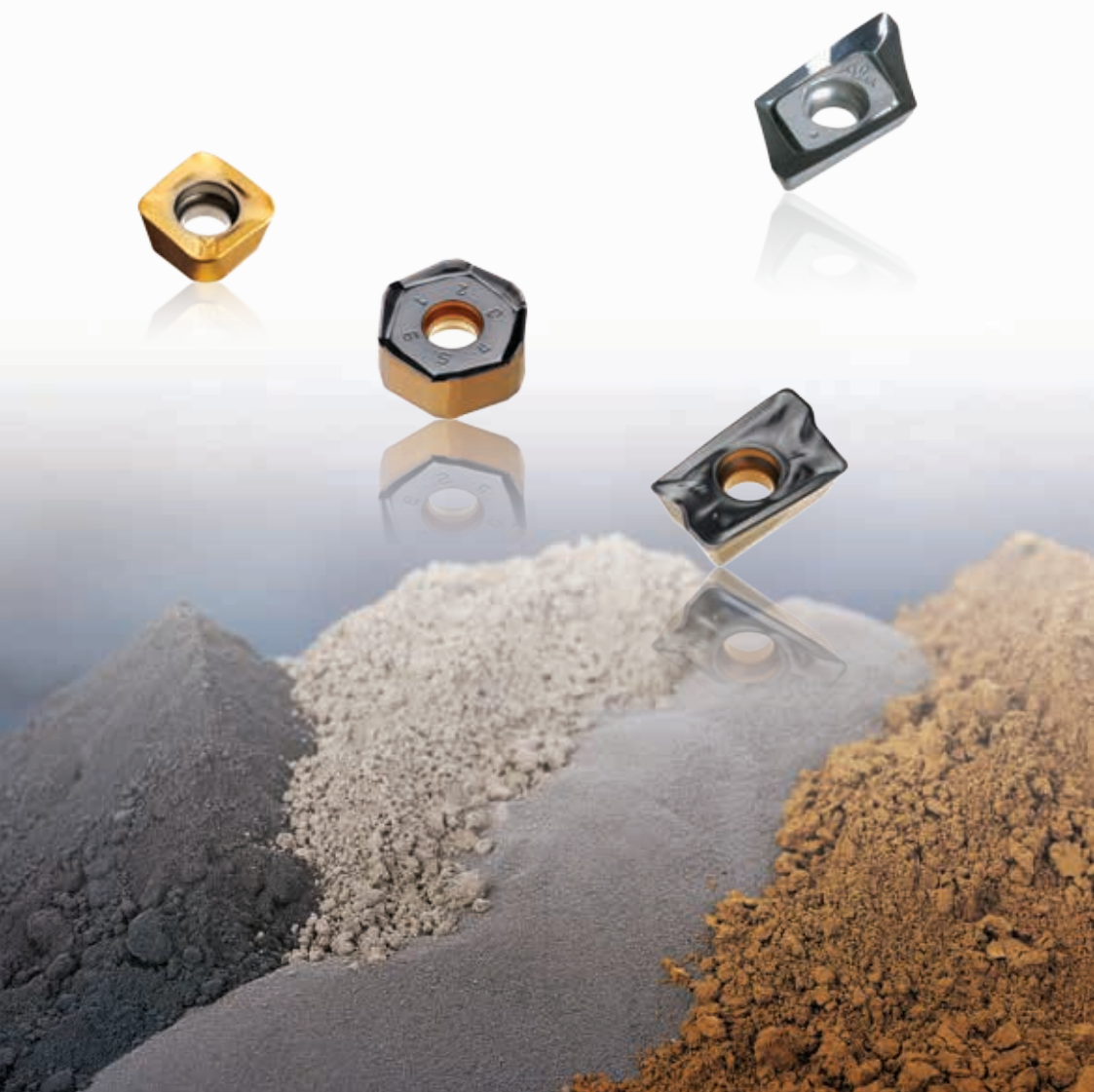


# МАТЕРИАЛЫ И СПЛАВЫ



# Сравнительная таблица сплавов

## ▶ Сплавы для фрезерования

ISO	TaeguTec	Sandvik	Walter	Seco	Kennametal	MMC	Sumitomo	Tungaloy	Kyocera	Korloy	Iscar
P	TT2510 TT7080	GC4330 GC1010 GC4220 GC4230	WKP25S WKP25 WAM10 WAM20	MP1500 MP2500 T250M		MP6120 MP6130	ACP100	T3130 AH3035 AH710		PC3525 PC3530 NC5330 NC5340	IC5400 IC380 IC950 IC520M
	TT9080 TT9030	GC4340 GC1130 GC1030 GC4240	WKP25S WAM30	F25M F30M MP3000	KC522M KC635M	MP9120 MP9130 VP15TF VP20RT	ACP3000 ACU2500 ACP200	AH110 AH725 AH730 GH330 AH120	PR830 PR1225 PR1230 PR9925	PC3700 PC3500 PC3600 PC5300 PC3535	IC808 IC908
	TT8080 TT8020 TT8525B	GC4240 GC1040	WKP35G WKP35S WKP45S WSM45X WSP45S	F40M T350M T60M	KC725M KC735M KC935M KCPM20 KCPM40	VP30RT FH7020 F7030	ACP300 ACZ350	AH140 T3130 AH130 AH3135 AH9030	PR1525	PC3600 PC5400 NC5350 NCM535	IC830 IC330 IC845 IC928 IC300
MS	TT9080 TT9030	GC1010 GC1130 GC1030 GC2030 S30T GC1025	WAM30 WXM35	MS2050 MP3000 MP2500 F25M F30M	KC635M	MP9120 MP9130 VP15TF VP20RT	ACU2500 ACK300 ACP300 ACM100 ACM200	AH110 T3130 AH8015 AH725 AH120 AH4035	PR830 PR1210 PR1025 PR1225 PR905	PC5300 PC9530	IC808 IC90
	TT8080 TT8020	GC2040 GC1040 S40T	WSM30 WSM35 WSM35S WSP45S WSM45X	F40M MS2500 MM4500	KC725M KCPM40	MP9140 MP7130 MP7140 VP30RT MV1020	ACM200 ACM300	AH130 AH140 SH730 AH3135	PR1225 PR905	PC5400 NC5350	IC840 IC830 IC330 IC328
K	TT7515	GC1010 GC3220 GC3330 GC4220	WAK15	MK1500 MP1500 MH1000	KC915M KCK15	MC5020	ACK3000 ACU2500 ACK200	T1115		PC8110	IC5100 IC4100 DT7150 IC4050
	TT6080	GC1020 GC4230 GC3040 GC4240	WKP25S WKP35G WKP35S WKK25S	MK2000 MK3000 MK2050	KCK15 KC520M	MP8010 VP15TF VP20RT F5010	ACK300 ACZ310	AH110 AH725 AH120 AH8015	PR905 PR1210 PR1510	PC6510 NC5330 NC5340 NCM535	IC810 IC910
H	TT2510 TT9080	GC1010 GC1130 GC1030	WHH15	F15M MH1000 MP1500 MP3000	KC510M KC522M KC635M	MP8010 VP15TF MP9130		AH710 AH750		PC2005 PC2010 PC2015 PC2510 PC2505 PC210F	IC903 IC900

# Сравнительная таблица сплавов

## ► Керметы

ISO	TaeguTec	Sandvik	Kennametal	Sumitomo	Kyocera	Tungaloy	Mitsubishi	Korloy	Seco	NTK	Ceramtec
P01	PV3010		KT315	T110A T1000A T1500Z	PV30 TN30 PV710 PV720	GT720 NS710	AP25N VP25N NX2525	CC1500		T3N	SC35
P10	CT3000	CT5005 CT5015 CT525 GC1525	KT5020 KT125 KT150	T1500A T1200A T2000Z	PV7025 PV60 TN60 TN610 TN620	GT730 GT530 AT9530 GT9530 NS520 NS720	MP3025 UP35N	CC2500 CN1500 CN2000 CC125	TP1030 CMP CM	T15 C30 Q50	SC15 SC8015 SC7035 SC40
P20	CT7000	CT530	KT1120 KT175	T3000Z T130Z	TN100M TC60M PV90	NS730 NS530 NS9530	VP45N NX99 NX3035	CN2500 CN20 CN30	TP1020 C15M	N20 Z15 C50 C7X	SC7015 SC60
P30				T250A T130A T4500A		NS740	MX3030 NX4545			Q50 N40	
M01	PV3010		KT315		PV30 TN30 PV7010	GT720 NS710	AP25N NX2525	CC105 CC115 CN1000		T3N	SC35
M10	CT3000	CT5005 CT5015 CT525 GC1525	KT5020 KT125 KT150	T1500A	PV7020 PV60 TN6010 TN6020 TN60	GT730 GT530 NS520 NS720	MP3025 UP35N	CN2000 CC125	TP1030 CMP CM	T15 C30 Q50	SC15 SC8015 SC7035 SC40
M20	CT7000	CT530	KT1120 KT175	T250A	TN100M TC60M PV90	NS730 NS530	VP45N NX99 NX3035	CN20 CN30	TP1020 C15M	N20 Z15 C50 C7X	SC7015 SC60
M30				T4500A		NS740	MX3030 NX4545			Q50 N40	
K01			KT315	T1000A	PV30 PV7005 PV7020 PV60	NS710 GT720 NS720 NS520	AP25N NX2525	CN1000	CM	T3N Q15	SC8015
K10	CT3000	CT5015	KT125		TN60 TN6020	GT730 NS730 NS530		CN2000	C15M	T15 Z15 C7Z	SC7015

# Сравнительная таблица сплавов

## ► Керамические сплавы

Применение	Состав	TaeguTec	Sandvik	Kennametal	Ceramtec	NTK	Kyocera	Sumitomo	Tungaloy
К	$Al_2O_3, ZrO_2$	AW120	CC620		SN60 SN80	HC1 HW2	KA30		
	$Al_2O_3, TiC$	AB30	CC650	KY1615	SH2 SH4	HC2 HC5 HC6	A65	NB90S NB90M	LX21
	$Si_3N_4, Al_2O_3, Y_2O_3, AlN$	AS500		KY1310 KY3000	SL506 SL508 SL606 SL608	SX9			
	$Si_3N_4, ZrO_2, Al_2O_3, Y_2O_3$	AS10	CC6090 CC6190	KY1320 KY3500 KYK10	SL500 SL808	SX1 SX6 SX8	KS6000 KS6050	SN2000K SN2100K NS260	FX105 CX710
	C покрытием CVD	SC10	CC1690	KY3400 KYK25	SL550C SL554C SL654C SL658C SL854C SL858C	SP2 SP9	CS7050	NS260C	
H	$Al_2O_3, TiCN$	AB20			SH2 SH4	HC2 HC5 HC7			LX10
	C покрытием PVD	AB2010	CC6050	KY4400		ZC4 ZC7	A66N PT600M	NB100C	LX11
S	$Al_2O_3, SiC$ whisker	TC430	CC670	KY4300		WA1 WA5		WX2000	
	$Si_3N_4, TiN$	TC3020 AS20 TC3030	CC6060 CC6065	KY2100 KY1540 KYS30 KYS25 KYS30P		SX5 SX7 SX9	KS6030 KS6040	SN1000S SN2000S	

# Сравнительная таблица сплавов

## ▶ Сплавы CBN

Применение	TaeguTec	Iscar	Tungaloy	Sumitomo	Sandvik	Kennametal	Mitsubishi	Kyocera	Seco
H	TB610	IB10H IB50	BX310	BN1000 BNX1	CB7105 CB7015	KB1610	MBC010	KBN510	CBN10
		IB10HC		BNC80 BNC100 BNC2010		KB5610 KB9610	MB8025 BC8105	KBN10M KBN10C KBN25C	CBN050C
	TB2015 TB650	IB20H IB55	BX330 BX530	BN250 BN2000 BNX20	CB7115 CB7025	KB1625	MB810	KBN525	CBN100
		IB25HA	BXM10	BNC160 BNC2020		KB5625	MB820 BC8110	KBN05M KBN25M	CBN160C
	TB670	IB25HC	BX360 BX380	BNX25 BNX350	CB7125 CB7135 CB50		MB825 MB8025 BC8120		CBN150 CBN170
			BXM20 BXA20	BNC200 BNC300			MB835 BC8020 BC8130	KBN30M	CBN060K CBN100P
K	TB7015 TB730	IB90	BX930 BX850 BX950	BN500 BN7500 BN7000	CB50	KB1630 KB1345	MB4020 MB710	KBN60M KBN65B	CBN200
		IB05S IB10S	BX470 BX480	BN700 BNC500	CB7050	KB5630 KB9640	MB730	KBN65M KBN70M	CBN400C
	KB90A TB7020		BX90S BXC90	BNS800			MBS140	KBN900	CBN300 CBN350

# Сравнительная таблица сплавов

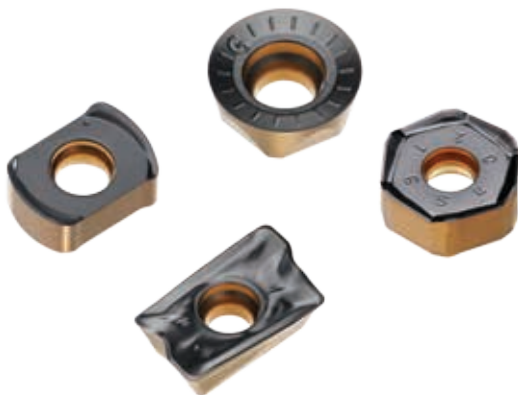
## ▶ Сплавы PCD

ISO	TaeguTec	Iscar	Tungaloy	Sumitomo	Sandvik	Kennametal	Mitsubishi	Kyocera	Seco	NTK
N01-N10	TD810 KP500	ID8	DX180 DX160	DA90		KD1405	MD203	KPD230	PCD30M PCD30	
N05-N20	KP300	ID5	DX140	DA150	CD10	KD1400	MD220	KPD010	PCD20	PD1
N15-N30	KP100 TD830		DX120 DX110	DA2200 DA1000		KD1425	MD205	KPD001	PCD10 PCD05	PD2

## ► Сплавы SFEED-RUSH для фрезерования

Сплавы SFEED-RUSH обладают повышенной прочностью и устойчивостью к сколам благодаря специальной финишной обработке CVD покрытия. В результате финишной обработки одноцветные пластины получают покрытие двух разных цветов: сбоку и сверху (см. Иллюстрации ниже).

ISO	Сплав	Диапазон ISO	Цвет пластины
P	TT8525B	P30-P45	<p>Одноцветная желтая пластина</p> <p>Специальная финишная обработка</p> <p>Усовершенствованный сплав SPEED-RUSH</p> <p>Двухцветная желто-черная пластина</p>



# Сравнительная таблица твердости

Твёрдость по Викерсу 50кг HV	Твёрдость по Бриггелло, шарик 10мм нагрузка 3000кгс		Твёрдость по Роквеллу				Твёрдость по Шору HS	Предел прочности Н/мм <sup>2</sup> (кгс/мм <sup>2</sup> )
	Стандартный шарик	Вольфрамовый твердосплавный шарик	Шкала А 60кгс алмазный индентор HRA	Шкала В 100кгс 1/16" шарик HRB	Шкала С 100кгс алмазный индентор HRC	Шкала D 100кгс а лмазный индентор HRD		
1900			93.1		80.5			
1800			92.6		79.2			
1700			91.9		77.9			
1600			91.3		76.6			
1500			90.5		75.3			
1450			90.1		74.6			
1400			89.6		74.0			
1350			89.1		73.4			
1300			88.7		72.7			
1250			88.3		72.1			
1200			87.9		71.5			
1150			87.5		70.9			
1100			87.1		70.3			
1050			86.6		69.6			
1000			86.2		68.9			
940			85.6		68.0	76.9	97	
920			85.3		67.5	76.5	96	
900			85.0		67.0	76.1	95	
880		(767)	84.7		66.4	75.7	93	
860		(757)	84.4		65.9	75.3	92	
840		(745)	84.1		65.3	74.8	91	
820		(733)	83.8		64.7	74.3	90	
800		(722)	83.4		64.0	74.8	88	
780		(710)	83.0		63.3	73.3	87	
760		(698)	82.6		62.5	72.6	86	
740		(684)	82.2		61.8	72.1	84	
720		(670)	81.8		61.0	71.5	83	
700		(656)	81.3		60.1	70.8	81	
690		(647)	81.1		59.7	70.5		
680		(638)	80.8		59.2	70.1	80	
670		630	80.6		58.8	69.8		
660		620	80.3		58.3	69.4	79	
650		611	80.0		57.8	69.0		
640		601	79.8		57.3	68.7	77	2205(210)
630		591	79.5		56.8	68.3		2020(206)
620		582	79.2		56.3	67.9	75	1985(202)
610		573	78.9		55.7	67.5		1950(199)
600		564	78.6		55.2	67.0	74	1905(194)
590		554	78.4		54.7	66.7		1860(190)
580		515	78.0		54.1	66.2	72	1825(186)
570		535	77.8		53.6	65.8		1795(183)
560		525	77.4		53.0	65.4	71	1750(179)
550	(505)	517	77.0		52.3	64.8		1750(174)
540	(496)	507	76.7		51.7	64.4	69	1660(169)
530	(488)	497	76.4		51.1	64.0		1620(165)
520	(480)	488	76.1		50.5	63.5	67	1570(160)
510	(473)	479	75.7		49.8	62.9		1530(156)
500	(465)	471	75.3		49.1	62.2	66	1459(153)
490	(456)	460	74.9		48.4	61.6		1460(149)
480	488	452	74.5		47.7	61.3	64	1410(144)

• Примечание: значения, выделенные серым взяты из таблицы ASTM E140 (рассчитаны по SAE-ASM-ASTM)













Твёрдость по Викерсу 50кг HV	Твёрдость по Бринеллю, шарик 10мм нагрузка 3000кгс		Твёрдость по Роквеллу				Твёрдость по Шору HS	Предел прочности Н/мм <sup>2</sup> (кгс/мм <sup>2</sup> )
	Стандартный шарик	Вольфрамовый твёрдосплавный шарик	Шкала А 60кгс алмазный индентор HRA	Шкала В 100кгс 1/16" шарик HRB	Шкала С 100кгс алмазный индентор HRC	Шкала D 100кгс алмазный индентор HRD		
470	441	442	74.1		46.9	60.7		1570(160)
460	433	433	73.6		46.1	60.1	62	1530(156)
450	425	425	73.3		45.3	59.4		1459(153)
440	415	415	72.8		44.5	58.8	59	1460(149)
430	405	405	72.3		43.6	58.2		1410(144)
420	397	397	71.8		42.7	57.5	57	1370(140)
410	388	388	71.4		41.8	56.8		1330(136)
400	379	379	70.8		40.8	56.0	55	1290(131)
390	369	369	70.3		39.8	55.2		1240(127)
380	360	360	69.8	(110.0)	38.8	54.4	52	1250(123)
370	350	350	69.2		37.7	53.6		1170(120)
360	341	341	68.7	(109.0)	36.6	52.8	50	1130(115)
350	331	331	68.1		35.5	51.9		1095(112)
340	322	322	67.6	(108.0)	34.4	51.1	47	1070(109)
330	313	313	67.0		33.3	50.2		1035(105)
320	303	303	66.4	(107.0)	32.2	49.4	45	1005(103)
310	294	294	65.8		31.0	48.4		980(100)
300	284	284	65.2	(105.5)	29.8	47.5	42	950(97)
295	280	280	64.8		29.2	47.1		935(96)
290	275	275	64.5	(104.5)	28.5	46.5	41	915(94)
285	270	270	64.2		27.8	46.0		905(92)
280	265	265	63.8	(103.5)	27.1	45.3	40	890(91)
275	261	261	63.5		26.4	44.9		875(89)
270	256	256	63.1	(102.0)	25.6	44.3	38	855(87)
265	252	252	62.7		24.8	43.7		840(86)
260	247	247	62.4	(101.0)	24.0	43.1	37	825(84)
255	243	243	62.0		23.1	42.2		805(82)
250	238	238	61.6	99.5	22.2	41.7	36	795(81)
245	233	233	61.2		21.3	41.1		780(79)
240	228	228	60.7	98.1	20.3	40.3	34	765(78)
230	219	219		96.7	(18.0)		33	730(75)
220	209	209		95.0	(15.7)		32	695(71)
210	200	200		93.4	(13.4)		30	670(68)
200	190	190		91.5	(11.0)		29	635(65)
190	181	181		89.5	(8.5)		28	605(62)
180	171	171		87.1	(6.0)		26	580(59)
170	162	162		85.0	(3.0)		25	545(56)
160	152	152		81.7	(0.0)		24	515(53)
150	143	143		78.7			22	490(50)
140	133	133		75.0			21	455(45)
130	124	124		71.2			20	425(44)
127	121			69.8			19	(42)
122	116			67.6			18	(41)
117	111			65.7			15	(39)

• Примечание: значения, выделенные серым взяты из таблицы ASTM E140 (рассчитаны по SAE-ASM-ASTM)

# Переводная таблица материалов





## ► По стандарту VDI 3323





Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
1	A 366 (1012) 1008	0.0030 C10	040 A 10 045 M 10 1449 10 CS		AF 34 C 10 XC 10
1		1.0028 Ust 34-2 (S250G1T)			A 34-2
1		1.0034 RSt 34-2 (S250G2T)	1449 34/20 HR, HS, CR, CS		A 34-2 NE
1		1.0035 St185 (Fe 310-0) St 33	Fe 310-0 1449 15 HR, HS		A 33
1	A 570 Gr. 33,36	1.0036 S235JRG1 (Fe 360 B) Ust 37-2	Fe 360 B 4360-40 B		
1		1.0037 S235JR (Fe 360 B) St 37-2	Fe 360 B 4360-40 B		E 24-2
1	1115	1.0038 GS-CK16	030A04	1A	
1	A 570 Gr. 40	1.0044 S275JR (Fe 430 B) St44-2	Fe 430 B FN 1449 43/25 HR, HS 4360-43 B		E 28-2
1		1.0045 S355JR	4360-50 B		E 36-2
1	A 570 Gr.50 A 572 Gr.50	1.0050 E295 (Fe 490-2) St 50-2	Fe 490-2 FN 4360-50 B		A 50-2
1	A 572 Gr. 65	1.0060 E335 (Fe 590-2) St 60-2	Fe 60-2 4360-55 E; 55 C		A 60-2
1		1.0060 St 60-2			
1		1.0070 E360 (Fe 690-2) St 70-2	Fe 690-2 FN		A 70-2
1		1.0112 P235S	1501-164-360B LT20		A37AP
1		1.0114 S235JU;St 37-3 U	4360-40C		E 24-3
1	A 284 Gr.D A 573 Gr.58 A 570 Gr 36;C A 611 Gr. C	1.0116 S235J2G3 (Fe 360 D 1) St 37-3	Fe 360 D1 FF 1449 37/23 CR 4360-40 D		E 24-3 E 24-4
1		1.0130 P265S	1501-164-400B LT 20		A 42 AP
1		1.0143 S275J0; St 44-3 U	4360-43C		E 28-3

					
SS	UNI	UNE	JIS	KS	ГОСТ
	C 10 1 C 10	F.1511 F.151A	S 10C	SM 10C	10
	Fe 330, Fe 330 B FU		SS 330	SS 330	
	Fe 330 B FU				St2sp
1300	Fe 320	Fe 310-0			St0
1311	FE37BFU	AE 235 B			16D, 18Kp
1312		Fe 360 B			St3Kp
1311	Fe 360 B 1449 37/23 HR	AE 235 B Fe 360 B	STKM 12A;C	STKM 12A;C	
1325	Fe 330, Fe 330 B FU		SS 330	SS 330	
1412	Fe 430 B Fe 430 B FN	AE 275 B Fe 430 B FN	SM 400 A;B;C	SM 400 A;B;C	St4ps; sp
2172	Fe 510 B	AE 355 B			
1550	Fe 490	a 490-2	SS 490	SS 490	ST5ps; sp
2172		Fe 490-2 FN			
1650	Fe 60-2 Fe 590	A 590-2 Fe 590-2 FN	SM 570	SM 570	St6ps; sp
	Fe 60-2				
1655	Fe 70-2 Fe 690	A 690-2 Fe 690-2 FN			
	Fe 360 C	AE 235 C			
	Fe 360 C	AE 235 C			
1312	Fe 360 D1 FF				
1313	Fe 360 C FN Fe 360 D FF Fe 37-2	AE 235 D Fe 360 D1 FF			St3kp; ps; sp 16D
		SPH 265			
1414-01	Fe 430 D	AE 275 D			

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
1	A 573 Gr. 70	1.0144 S275J2G3 (Fe 430 D 1)	Fe 430 D1 FF		E 28-3
	A 611 Gr.D	St 44-3	4360-43 C; 43 D		E 28-4
1		1.0149 S275JOH; RoSt 44-2	4360-43C		
1		1.0226 DX51D; St 02 Z	Z2		GC
1	M 1010	1.0301 C10	040 A 10 045 M 10 1449 10 CS		AF 34 C 10 XC 10
1	A 621 (1008)	1.0330 DC 01 St 2; St 12	1449 4 CR 1449 3 CS		TE
1	A 619 (1008)	1.0333 Ust 3 (DC03G1) Ust 13	1449 2 CR;3 CR		E
1	A 621 (1008)	1.0334 UStW 23 (DD12G1)			SC
1	A 622 (1008)	1.0335 DD13; StW 24	1449 1 HR		3C
1	A 620 (1008)	1.0338 DC04 St4; St 14	1449 1 CR;2 CR		ES
1	A 516 Gr. 65; 55 A 515 Gr. 65;55 A 414 Gr. C A 442 Gr.55	1.0345 P235GH HI	1501 Gr. 141-360 1501 Gr. 161-360; 151-360 1501 Gr. 161-400; 154-360 1501 Gr. 164-360; 161-360		A 37 CP;AP
1	(M) 1020 M 1023	1.0402 C22	055 M 15, 070 M 20 2C/2D 1499 22 HS, CS		AF 42 C 20; XC 25;1 C 22
1	1020	1.0402 C22	050A20 2C/2D		CC20
1	1020;1023	1.0402 C22	055 M 15, 070 M 20 2C		AF 42 C 20; XC 25;1 C 22
1		1.0425 P265GH H II	1501 Gr. 161-400;151-400 1501 Gr. 164-360; 161-400 1501 Gr. 164-400;154-400		A 42 CP; AP
1	A27 65-35	1.0443 GS-45	A1		E 23-45 M
1		1.0539 S355NH;StE 335			TSE 355-4
1		1.0545 S355N; StE 355	4360-50E		E 355 R
1		1.0546 S355NL;TSIE 355	4360-50EE		E 355 FP
1		1.0547 S355JOH	4360-50C		TSE 355-3
1		1.0549 S355 NLH;TSIE 355			
1		1.0553 S355JO;St 52-3U	4360-50C		E 36-3

					
SS	UNI	UNE	JIS	KS	ГОСТ
1411, 1412 1414	Fe 430 B, Fe 430 C (FN) Fe 430 D (FF)	AE 275 D Fe 430 D1 FF	SM 400 A;B;C	SM 400 A;B;C	St4kp> ps; sp
1412-04	Fe 430 C	Fe 430 C			
1151 10	FeP 02 G	FeP 02 G			
	C 10 1 C 10	F.1511 F.151.A	S 10C	SM 10C	10
1142	FeP 00 FeP 01 FeP 02	AP 11 AP 02	SPHD SPCD	SPHD SPCD	15kp
	FeP 12 FeP 13	AP 12 AP 13	SPHE SPHE	SPHE SPHE	10kp 08kp
1147	FeP 04	AP 04	SPCE	SPCE	08jU; JUA
1331 1330	FeE235, Fe 360 1 KW;KG Fe 360 2 KW;KG	A 37 RC I RA II	SGV 410, SGV 450, SGV 48, SPV 450;SPV 480	SGV 410, SGV 450, SGV 480, SPPV 450;SPPV 480	
1450	C 20 C 21, C 25	1 C 22 F.112	S20C	SM 20C	20
1450	C20, C21	F.112	S22C	SM 22C	20
1450	C 20; C 21;C 25	1 C 22F.112	S 20 C;S 22 C	SM 20 C;SM 22C	
1431 1430 1432 1305	Fe 410 1 KW; KG; KT Fe 410 2 KW; KG	A 42 RC I A 42 RC II	SPV 315; SPV 355 SG 295; SGV 410 SGV 450; SGV 480	SPPV 315; SPPV 355 SG 295; SGV 410 SGV 450; SGV 480	16K 20K
2134-04	Fe 510 B	Fe 355 KGN			
2334-01	FeE 355 KG	AE 355 KG			
2135-01	FeE 355 KT	AE 355 KT			
2172-04	Fe 510 C	Fe 510 C			
2135	Fe 510 D Fe 510 C	FeE 355 KTM			

# Переводная таблица материалов




## ► По стандарту VDI 3323

Группа материала	 AISI/SAE	 Материал по DIN	 BS	 EN	AFNOR
1	A 633 Gr.C A 588	1.0562 P355N StE 355	1501 Gr.225-490A LT 20		FeE 355 KG N E 355 R/FP; A 510 AP
1		1.0565 P355NH; WStE 355	1501-225-490B LT 20		A 510 AP
1		1.0566 P355NL1; TStE 355	1501-225-490A LT 50		A 510 FP
1	1	1.0570 S355J2G3 St 52-3	Fe 510 D1 FF 1449 50/35 HR>HS 4360-50 D		E 36-3 E 36-4
1	1213	1.0715 9 SMn 28 (1SMn30)	230 M 07		S 250
1	1213	1.0715 9 SMn 28	230 M 07		S 250
1	12 L 13	1.0718 9 SMnPb 28 (11SMnPb30)			S 250 Pb
1	1108 1109	1.0721 10 S 20	(210 M 15)		10S20 10F 2
1	11 L 08	1.0722 10 SPb 20			10PbF 2
1	11 L 08	1.0722 10 SPb 20			10PbF 2
1	1215	1.0736 9 SMn 36 11SMn37)			S 300
1	12 L 14	1.0737 9 SMnPb 36 (11SMnPb37)			
1		1.0972 S315MC; QStE 300 TM	1501-40F30		E 315 D
1		1.0976 S355MC; QStE 360 TM	1501-43F35		E 355 D
1		1.0982 S460MC; QStE 460 TM	1501-50F45		
1		1.0984 S500MC; QStE 500 TM			E 490 D
1		1.0986 S500MC; QStE 500 TM	1501 - 60F55		E 560 D
1	1010	1.1121 CK 10 (C10E)	040 A 10		XC 10
1		1.1121 St 37-1	4360 40 A		
1	1015	1.1141 CK 15 (C15E)	040 A 15 080 M 15	32C	XC 12 XC 15 XC 18
1	1020 1023	1.1151 C22E CK 22	055 M 15 (070 M 20)		2 C 22 XC 18 XC 25
1	D 3	1.2080 X 210 Cr 12	BD 3		Z 200 C 12







					
SS	UNI	UNE	JIS	KS	ГОСТ
2106	FeE 355 KG;KW	AEE 355 KG;DD	SM 490 A;B;C; YA;YB	SM 490 A;B;C; YA;YB	15GF
2106	FeE 355-2				
2107-01	FeE 355-3				
2132, 2133	17GS	AE 355 D	SM 490 A;B;C; YA;YB	SM 490 A;B;C; YA;YB	17GS
2134, 2174	17G1S	Fe 510, D1 FF			17G1S
1912	CF SMn 28	F.2111 - 11 SMn 28	SUM 22	SUM 22	
1912	CF 9 SMn 28	11 SMn 28	SUM 22	SUM 22	
1914	CF 9 SMnPb 28	F.2112-11 SMnPb 28	SUM 22 L SUM 23 L, SUM 24 L	SUM 22 L SUM 23 L, SUM 24 L	
	CF 10 S 20	F. 2121 - 10 S 20			
	CF 10 SPb 20	F.2122-10 SPb 20			
	CF 10 SPb 20	10 SPb 20			
	CF 9 Mn 36	F.2113 - 12 SMn 35	SUM25	SUM25	
2642	FeE 355TM				
2662	FeE 490 TM FeE 560 TM				
1265	C 10, 2 C 10 2 C 15	F-1510-C 10 K	S 9 CK S 10 C	S 9 CK S 10 C	08;10
1300					
1370	C 15	C 16 F.1110-C 15 F.1511-C 16 K	S 15 S 15 CK	SM 15C SM 15CK	15
1450	C 20	C 25 F.1120-C 25 K	S 20 C, S 20 CK S 22 C	SM 20 C, SM20 CK SM22 C	20
2642					

# Переводная таблица материалов

## ► По стандарту VDI 3323





Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
1	A36	St 44-2	4360 43 A		NFA 35-501 E 28
1		StE 320-3Z	1 501 160		
1	A572-60	1.8900 StE 380	4360 55 E		
2	(M) 1025	1.0406 C 25	070 M 26		1 C 25
2		1.0416 GS-38			20-400 M
2	A 537 Cl.1 A 414 Gr. G A 612	1.0473 P355GH	19 Mn 6		A 52 CP
2	1035	1.0501 C 35	080 A 32, 080 A 35 080 M 36, 1449 40 CS		1 C 35 AF 55 C 35 XC 38
2	1045	1.0503 CF 45 (C45G)	060 A 47 080 M 46		XC 42 H 1 TS
2	1040	1.0511 C 40	080 M 40		1 C 40 AF 60 C 40
2		1.0540 C 50			
2	A27 70-36	1.0551 GS-52	A2		280-480 M
2	A148 80-40	1.0553 GS-60	A3		320-560 M
2	A738	1.0577 S355J2G4 (Fe 510 D 2)	Fe 510 D2 FF 1501 Gr.224-460 1501 Gr. 224-490		A 52 FP
2	1140	1.0726 35 S 20	212 M 36	8M	35MF 6
2	1146	1.0727 45 S 20 (46S20)			45 MF 4
2	1035 1041	1.1157 40Mn4	150 M 36	15	35 M 5 40 M 5
2	1025	1.1158 C25E CK 25	(070 M 25)		2 C 25 XC 25
2	1536	1.1166 34Mn5			
2	1330	1.1170 28Mn6	(150 M 28), (150 M 18)		20 M 5, 28 Mn 6
2	1330	1.1170 28Mn6	150 M 5		20 M 5
2	1330	1.1170 28Mn6		14A	20 M 5
2		1.1178 C30E; CK 30	080M30		XC 32









					
SS	UNI	UNE	JIS	KS	ГОСТ
1411					
1421					
2145	FeE390KG		S 25C	SM 25C	
	C 25	1 C 25			
1306					
2101	Fe E 355-2	A 52 RC I RA II	SGV 410	SGV 410	
2102			SGV 450	SGV 450	
			SGV 480	SGV 480	
1572	C 35	F.113	S35C	SM35C	35
1550	1 C 35				
1672	C 43		S 45 C	SM 45 C	45
	C 46				
	C 40	1 C 40	S 40 C	SM 40 C	
1674	C 50	1 C 50			
1505					
1606					
2107		A 52 RB II AE 355 D			
1957		F.210.G			
1973					
			S 09CK	SMn 433	
C 25	F.1120 - C 25 K	S 25 C S 28 C	S 25 C	SM 25 C	
	TO.B	SMn 433 H			
1421	C 28 Mn	28 Mn 6	SCMn 1	SCMn 1	30G
2145					
	C 28 Mn		SCMn 1	SCMn 1	
	C 30	2 C 30			

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
2	1035	1.1180 C35R Cm 35	080 A 35		3 C 35 XC 32
2	1035	1.1181 C35E	080 A 35		2 C 35, XC 32
	1038	CK 35	(080 M 36)		XC 38 H 1
2	1035	1.1181 C35E CK 35	080 A 35 (080 M 36)		
2	1042	1.1191 GS- Ck 45	080 A 46		XC 45
2	1049	1.1206 C50E	080 M 50		2 C 50
	1050	CK 50			XC 48 H 1; XC 50 H 1
2	1050	1.1213 Cf 53	070 M 55		XC 48 H TS
	1055	(C53G)			
2	4520	1.5423 22Mo4	1503-245-420		
3		1.0050 St50-2			
3	A 516 Gr.70 A 515 Gr. 70 A 414 Gr.F; G	1.0481 P295GH 17 Mn 4	1501 Gr. 224		a 48 Cp;AP
3	1043	1.0503 C35	060 A 47 080 M 46 1449 50 HS, CS		1 C 45 AF 65 C 45
3	1074	1.0614 C 76 D; D 75-2			XC 75
3	1086	1.0616 C 86 D; D 85-2			XC 80
3	1095	1.0618 C 92 D; D 95-2			XC 90
3	1036 1330	1.1165 30Mn5	120 M 36 (150 M 28)		35 M 5
3	1335	1.1167 30Mn5	150 M 36		40 M 5
3	1040	1.1186 C40E CK 40	060 A 40, 080 A 40 080 M 40		2 C 40 XC 42 H 1
3	1045	1.1191 C45E CK 45	080 M 46 060 A 47		2 C 45 XC 42 H 1 XC 45 XC 48 H 1

 SS	 UNI	 UNE	 JIS	 KS	 GOCT
1572		F.1130-C 35 K-1			
1550	C35	F.1130-C 35 K	S 35 C	SM 35 C	35
1572					
1572	C36		S 35 C	SM 35 C	
1660	C45	F-1140			
1674	C 50				50
1674	C 53		S 50 C	SM 50 C	50
	16 Mo 5 KG; KW	F.2602- 16 Mo 5	SB 450 M	SB 450 M	SB 480 M
	FE50				
	Fe 510 KG;KT;KW Fe 510-2 KG;KT;KW FeE 295	A 47 RC I RA II	SG 365, SGV 410 SGV 450 SGV 480	SG 365, SGV 410 SGV 450 SGV 480	14G2
1672	C 45	F.114	S 45 C	SM 45 C	45
1650	1 C 45				
C 85					
		F.8211-30 Mn 5 f.8311-AM 30 Mn 5	SMn 433 H SCMn 2	SMn 433 H SCMn 2	27ChGSNMDTL 30GSL
2120		F. 1203-36 Mn 6 F. 8212-36 Mn 5	SMn 438 (H) SCMn 3	SMn 438 (H) SCMn 3	35G2 35GL
	C 40		S 40 C	SM 40 C	
1672	C 45 C 46	F.1140-C 45 K F.1142-C48 K	S 45 C S 48 C	S 45 C S 48 C	45

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
3	1049	1.1201 C45R Cm 45	080 M 46		3 C 45 XC 42 H 1 XC 48 H 1
3		1.7242 18 CrMo 4			
3	A 387 Gr. 12 Cl	1.7337 16 CrMo 4 4			
3	A 387 Gr. 12 Cl	1.7337 16 CrMo 4 4			
3		1.7362 12 CrMo 19 5	3606-625		Z 10 CD 5.05
3	A572-60	17 MnV 6	436055 E		NFA 35-501 E 36
4	1055	1.0535 C55	070 M 55		1 C 55 AF 70 C 55
4	1060	1.0601 C60	060 A 62 1449 HS,CS	43D	1 C 60 AF 70 C 55
4	1070	1.0603 C67	080 A 67 1449 70HS		XC65
4	1074 1075	1.0605 C75	1449 80 HS		
4	1055	1.1203 C55E CK 55	060 A 57 070 M 55		2 C 5 XC 55 H 1
4	1055	1.1209 C55R Cm 55	070 M 55		3 C 55 XC 55 H 1
4	1060 1064	1.1221 C60E CK 60	060 A 62	43D	2 C 60 XC 60 H 1
4	1070	1.1231 CK 67 (C67E)	060 A 67		XC 68
4	1074 1075 1078	1.1248 CK 75 (C75E)	060 A 78		XC 75
4	1086	1.1269 CK 85 (C85E)			XC 90
4	1095	1.1274 Ck 101 (C101E)			XC 100
4	W 112	1.1663 C 125 W			Y2 120
4					
5		1.0070 St70-2			
5		1.7238 49 CrMo 4			
5		1.7701 51 CrMoV 4			

					
SS	UNI	UNE	JIS	KS	ГОСТ
1660	C 45	F.1145-C 45K-1 F.1147C 48 K-1	S 50 C	SM 50 C	
18 CrMo 4	A 18 CrMo 4 5 KW A 18 CrMo 4 5 KW 16 CrMo 20 5				
2142					
1655	C 55 1 C 55		S 55 C	SM 55 C	55
	C 60 1 C 60		S 58 C	SM 58 C	60(G)
	C 67				
	C 75				75
1655	C 55	F.1150-C 55 K	S 55 C	SM 55 C	55
	C 55	F.1155-C 55 K-1			
1655	C 60		S 58 C	SM 58 C	60
1678					60G, 60GA
1770	C 70				65GA 68GA, 70
774	C 75				75(A)
	C 90				85(A)
	C 100	F-5117	SUP 4	SPS 4	
1870					
2223	FE70-2				
	51 CrMoV 4				

# Переводная таблица материалов





## ► По стандарту VDI 3323

Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
6	A573-81 65	1.0116 St 37-3	4360 40 B		E 24-U
6	A515 65	1.0345 H1	1 501 161		A 37 CP
6	5120	1.0841 St 52-3	150 M 19		20 MC 5
6	9255	1.0904 55 Si 7	250A53	45	55S7
6	9254	1.0904 55 Si 7	250 A 53		55 S 7
6	9262	1.0961 60SiCr7	1 501 161		60SC6
6	L3	1.2067 100Cr6	BL3		Y100C6
6	L1	1.2108 90 CrSi 5			
6	L2	1.2210 115CrV3			100C3
6		1.2241 51CrV4			
6		1.2311 40 CrMnMo 7			
6	4135	1.2330 35 CrMo 4	708 A 37		34 CD 4
6		1.2419 105WCr6	BO1		105WC13
6	0 1	1.2510 100 MnCrW 4	BS1		8 MO 8
6	S1	1.2542 45 WCrV7			
6	S1	1.255 60WCrV7			55WC20
6	L6	1.2713 55NiCrMoV6			55NCDV7
6	L6	1.2721 50NiCr13			55 NCV 6
6	O2	1.2842 90MnCrV8	BO2		90 MV8
6	E 50100	1.3501 100 Cr 2			55WC20
6	52100	1.3505 100Cr6	2 S 135 535 A 99	31	100 C 6
6		1.5024 46Si7			45 S 7; Y 46 7;46 SI 7
6	9255	1.5025 51Si7			51 S 7 51 Si 7
6	9255	1.5026 55Si7	251 a 58		55 S 7
6	9260	1.5027 60Si7	251 A 60 251 H 60		60 S 7
6	9260 H	1.5028 65Si7			60 S 7
6		1.5120 38 MnSi 4			







					
SS	UNI	UNE	JIS	KS	ГОСТ
1312	Fe37-3				
1330					
2172	Fe 52	F-431			
2085	55Si8	56Si7			
2090		F-431			
60SiCr8	60SiCr8				
	100Cr6				
2092	105WCR 5				
	107CrV3KU				
	35 cRmO 8 KU				
2234	35CrMo4	34CrMo4	SCM435TK	SCM435TK	
2140	10WCr6	105WCr5			
2140	10WCr6	105WCr5	SKS 31	STS 31	
2710	45 WCrV8 KU	45WCrSi8			
2710	58WCr9KU				
		F.520.S	SKT 4	STF 4	
2550		f-528			
2258	100Cr6	F.1310 - 100 Cr 6	SUJ2	STB 2	SchCh 15
		F. 1451 - 46 Si 7			
2090	48 Si 7	F.1450-50 Si 7			
	50 Si 7				
2085 2090	55 Si 7	F.1440 - 56 Si 7			55S2
	60 Si 7	F. 1441 - 60 Si 7			60S2
			50 P 7 SUP 6	SPS 6	

# Переводная таблица материалов

## ► По стандарту VDI 3323

Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
6	A 204 Gr.A 4017	1.5415 16Mo3 15 Mo 3	1503-243 B		15 D 3
6	4419	1.5419 20Mo4	1503-243-430		
6	A 350-LF 5	1.5622 14Ni6			16N6
6	3415	1.5732 1 NiCr10			14 NC 11
6	3310; 3314	1.5752 14NiCr14	655M13	36A	12NC15
6		1.6587 17CrNiMo6	820A16		18NCD6
6		1.6657 14NiCrMo134			
6	5515	1.7015 15 Cr 3	523 M 15		12 C 3
6	5132	1.7033 34Cr4	530A32	18B	32C4
6	5140	1.7035 41C r4	530M40	18	42C4
6	5140	1.7045 42Cr41	530 A 40		42 C 4 TS
6	5115	1.7131 16MnCr5	527 M 17		16 MC 5
6		1.7139 16MnCr5			
6	5515	1.7176 55Cr3	527 A 60	48	55 C 3
6	4135; 4137	1.7220 34CrMo4	708 Aa 37		35 CD 4
6	4142	1.7223 41CrMo4			
6	4140	1.7225 42CrMo4	708 M 0		42 CD 4
6		1.7228 55NiCrMoV6G	823M30	33	
6		1.7262 15CrMo5			12 CD 4
6		1.7321 20 mOcR 4			
6	ASTM A182 F-12	1.7335 13CrMo4 4	1501-620Gr27		
6	A 182-F11;12	1.7335 13 CrMo 4 4	1 501 620 Gr. 27		15 CD 4.5
6	ASTM A 182 F.22	1.7380 10CrMo9 10	1501-622gr31; 45		
6	A182 F-22	1.7380 10 CrMo 9 10	1501-622		12 CD 9.10
6		1.7715 14MoV6 3	1503-660-440		
6	A355A	1.8509 41CrAlMo 7	905 M 39	41B	40 CAD 6.12
7	A570.36	1.0038 S235JRG2 (Fe 360 B) RSt 37-2	Fe 360 B FU 1449 27/23 CR 4360-40 B		E 24-2NE
7	3135	1.5710 36NiCr6	640A35		35NC6









					
SS	UNI	UNE	JIS	KS	ГОСТ
2912	16Mo3(KG;KW)	F. 2601 - 16 Mo 3			
-2512	G 20 Mo 5 G 22 Mo5		SCPH 11	SCPH 11	
14 Ni 6 KG;KT	F.2641 - 15 Ni 6				
16NiCr11	15NiCr11	SNC415(H)			
		SNC815(H)			
	14NiCrMo13				
	14NiCrMo131				
			SCr415(H)	SCr415(H)	
	34Cr4(KB)	35Cr4	SCr430(H)	SCr430(H)	
	41Cr4	42Cr4	SCr440(H)	SCr440(H)	
2245	41Cr4	42Cr4	SCr440	SCr440	
2511	16MnCr5	16MnCr5			
2127					
2253			SUP9(A)	SPS 9(A)	
2234					
	41CrMo4	42CrMo4	SNB 22-1	SNB 22-1	
2244					
2512	653M31				
2216		12CrMo4			
2625					
	14CrMo4 5	14CrMo45			
2216		12CrMo4	SCM415(H)	SCM415(H)	
2218	12CrMo9,10	TU.H			
		13MoCrV6			
2940	41CrAlMo7	41CrAlMo7			
1312	Fe 360 B FN	AE 235 B FN;FU Fe 360 B FN; FU			St3ps; sp

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
7		1.5755 31 NiCr 14	653 M 31		18 NC 13
7	8620	1.6523 2 NiCrMo2	805M20	362	20 NCD 2
7	8740	1.6546 40 NiCrMo 22	311-Tyre 7		
7	4130	1.7218 25CrMo4	CDS 110		25 CD 4
7		1.7733 24 CrMoV 5 5			20 CDV 6
7		1.7755 GS-45 CrMOV 10 4			
7		1.8070 21 CrMoV 5 11			
8	4142	1.2332 47 CrMo 4	708 M 40	19A	42 CD 4
8	A128 (A)	1.3401 G-X120 Mn 12			Z 120 M 12
8	3435	1.5736 36 NiCr 10			30 NC 11
8	9840	1.6511 36CrNiMo4	816M40	110	40NCD3
8	4340	1.6582 35CrNiM 6	817 M 40	24	35 NCD 6
8		1.7361 32 CeMo12	722 M 24	40B	30 CD 12
8	6150	1.8159 50 CrV 4	735 A 50	47	50CrV4
8		1.8161 58 CrV 4			
8		1.8515 32 CrMo 12	722 M 24	40B	30 CD 12
8		1.8523 39CrMoV13 9	897M39	40C	
9		1.4882 X 50 CrMnNiNbN 21 9			Z 50 CMNNb 21.09
9	3135	1.5710 36NiCr6	640A35	111A	35NC6
9		1.5864 35 niCr 18			
9		31 NiCrMo 13 4	830 m 31		
10	A573-81	1.0144 ST 44-3	4360 43 C		E 28-3
10	A 619	1.0347 DCO3 RSt;RRSt 13	1449 3 CR 1449 2 CR		E
10	M 1015 M 1016 M 1017	1.0401 C15	080 M 15 080 M 15 1449 17 CS		AF 37 C12 XC 18
10		1.0570 ST 52-3	4360 50 B		E 36-3
10	12L13	1.0718 9SMnPb28			S250Pb
10	(12L13)	1.0718 9 SMnPb 28			S 250 Pb

					
SS	UNI	UNE	JIS	KS	GOCT
2506	20NiCrMo2 40NiCrMo2(KB)	20NiCrMo2 40NiCrMo2	SNCM220(H) SNCM240	SNCM220(H) SNCM240	
2225	25CrMo4(KB) 21 CrMoV 5 11	55Cr3	SCM420/430	SCM420/430	
	35 NiCr 9				
2244	42CrMo4	42CrMo4	SCM (440)	SCM (440)	
2183	GX120Mn12	F. 8251-AM-X120Mn12	SCMnH 1, SCMn H 11	SCMnH 1, SCMn H 11	110G13L
	36NiCrMo4(KB)	35NiCrMo4	SUP 10	SPS 10	
2541	35NiCrMo6(KB)		SNCM 447	SNCM 447	
2240	30CrMo12	F.124.A			
2230	50CrV4	51CrV4			
2240	32CrMo12 36CrMoV12	F.124.A			
			SNC236	SNC236	
2534		f-1270			
1412			SM 400A;B;C	SM 400A;B;C	
	Fep 02	AP 02			08JU
1350	C15 C16 1 C 15	F.111	S 15 C	SM 15 C	
2132	Fe52BFN/Fe52CFN		SM490A;B;C;YA;YB	SM490A;B;C;YA;YB	
1914	CF9SMnPb28	11SMnPb28			
1914	CF 9 SMnPb 28	11 SMnPb 28	SUM 22L	SUM 22L	

# Переводная таблица материалов





## ► По стандарту VDI 3323




Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
10		1.0723 15 S 22 15 S 20	210 A 15 210 M 15		
10		1.2083			
10	H 11	1.2343 x 38 CrMoV 5 1	BH 11		Z 38 CDV 5
10	H 13	1.2344 X 40 CrMoV 5 1	BH 13		Z 40 CDV 5
10	A 2	1.2363 X100 CrMoV 5 1	BA 2		Z 100 CDV 5
10	D 2	1.2379 X 155 CrVMo 12 1	BD2		Z 160 CDV 12
10	HNV3	1.2379 X210Cr12G	BD2		Z160CDV12
10	D 4 (D 6)	1.2436 X 210 CrW 12	BD6		Z 200 CD 12
10	H 21	1.2581 X 30 WCv 9 3	BH 21		Z 30 WCV 9
10		1.2601 X 165 CrMoV 12			
10	H 12	1.2606 X 37 CrMoW 5 1	BH 12		Z 35 CWDV 5
10	D3	1.3343 S 6-5-2	BM2		Z200C12
10	N08028	1.4563			Z1NCDU31-27-03
10	ASTM A353	1.5662 X8Ni9	1501-509;510		
10	ASM A353	1.5662 X8Ni9	502-650		9 Ni
10	2517	1.5680 12Ni19	12Ni19		Z18N5
10	2515	1.5680 12 Ni 19			Z 18 N 5
11		1.3202 S 12-1-4-5	BT 15		
11		1.3207 S 10-4-3-10	BT 42		Z130WKCDV
11	T15	1.3243 S 6-5-2-5			KCV 06-05-05-04-02
11		1.3246 S 7-4-2-5			Z110 WKCDV 07-05-04
11		1.3247 S 2-10-1-8	BM 42		Z110 DKCWW 09-08-04
11	M 42	1.3249 S 2-9-2-8	BM 34		
11	T 4	1.3255 S 18-1-2-5	BT 4		Z 80 WKCV 18-05-04-0
11	M 2	1.3343 S6-5-2	BM2		Z 85 WDCV
11	M 7	1.3348 S2-9-2			Z 100 DCWV 09-04-02-

 SS	 UNI	 UNE	 JIS	 KS	 ГОСТ
1922		F.210.F	SUM 32	SUM 32	
2314	X 37 CrMoV 5 1 KU				
2242	X40CrMoV511KU	F-5318	SKD61	STD61	
2260	X100CrMoV51KU	F-5227	SKD12	STD12	
2310	X165CrMoW12KU	X160CrMoW12KU			
2736					
2312	X215CrW 12 1 KU	F-5213			
	X30WCv 9 3 KU	F-526	SKD5	STD5	
2310					
	X 35 CrMoW 05 KU	F.537			
2715	X210Cr13KU	X210Cr12	SUH3	STR3	
2584					
	14 Ni 6 KG;KT	XBNiO9			
	X10Ni9	F-2645	SL9N60(53)	SL9N590(520)	
	HS 12-1-5-5	12-1-5-5			
2723	HS 6-5-2-5	6-5-2-5	SKH55	SKH55	
7-4-2-5	HS 7-4-2-5	M 35			
2-10-1-8	HS 2-9-1-8 2-9-2-8	M 41			
2722	HS 652	F-5604	SKH 51	SKH 51	
2782	HS 292	F-5607			

# Переводная таблица материалов





## ► По стандарту VDI 3323

Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
11	T 1	1.3355 S 18-0-1	BT 1		Z 80 WCV 18-4-01
11	630	1.4548			Z7CNU17-04
11	HNV 3	1.4718 X45CrSi 9 3	401S45	52	Z45CS9
11	422	1.4935 x20 CrMoWV 12 1			
12	403	1.4000 X6Cr13	403 S 17		Z 6 C 13
12		1.4001 X6Cr14			
12	(410S)	1.4001 X7 Cr 13	(403 S 7)		Z 8 C 13
12	405	1.4002 X6CrA12	405S17		Z8CA12
12	405	1.4002 X6 CrAl 13	405 S 17		Z6CA13
12	416	1.4005 X12CrS 13	416 S 21		Z11 CF 13
12	410; CA-15	1.4006 (G-)X10 Cr 13	410S21	56A	Z10 C 13
12	430	1.4016 X8Cr17	Z8C17		430S15
12	430	1.4016 X6 Cr 17	430 S 15	60	Z 8 C 17
12		1.4027 G-X20Cr14	420 C 29		Z20 C 13M
12		1.4027 G-X 20 Cr 14	420 C 29		Z 20 C 13M
12	420	1.4028 X30 Cr 13	420 S 45		Z 30 C 13
12		1.4086 G-X120Cr29	452C11		
12	430 F	1.4104 X12CrMoS17	420 S 37		Z 10 CF 17
12	440B	1.4112 X90 CrMoV 18			
12	434	1.4113 X6CrMo 17	434 S 17		Z 8 CD 17.01
12		1.4340 G-X40CrNi27 4			
12	S31500	1.4417 X2CrNiMoSi19 5			
12	S31500	1.4417 X2 CrNoMoSi 18 5 3			
12		1.4418 X4 CrNiMo16 5			Z6CND16-04-01
12	XM 8	1.4510			Z 4 CT 17
	430 Ti				
	439				
12	430tl	1.4510 X6 CrTi 17			Z 4 CT 17
12		1.4511 X 6 CrNb 17(X 6 CrNb 17			Z 4 CNb 17
12	409	1.4512 X 6 CrTi 12 (X2CrTi12)	LW 19 409 S 19		Z 3 CT 12
12		1.4720 X20CrMo13			






					
SS	UNI	UNE	JIS	KS	ГОСТ
	X45CrSi8	F322	SUH1	STR1	
2301	X6Cr13	F.3110 F8401	SUS403	STS 403	
2301	X6CrAl13				
2302	X6CrAl13				
2380	X12 CrSC13	F-3411	SUS 416	SUS 416	
2302	X12Cr13	F.3401	SUS 410	SUS 410	
2320	X8Cr17	F.3113			
2320	X8Cr17	F.3113	SUS 430	SUS 430	
2304					
2383	X10CrS17	F.3117	SUS430F	STS 430F	
2325	X8CrMo17		SUS434	STS 434	
2376					
2376					
2387	X 6 CrTi 17	F.3115-X 5 CrTi 17	SUS 430 LK	STS 430 LX	08 Ch17T
	X 6 CrNb 17	F.3122-X 5 CrNb 17	SUS 430 LK	STS 430 LX	
	X 6 CrTi 17		SUH 409	STR 409	

# Переводная таблица материалов

## ► По стандарту VDI 3323





Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
12	405	1.4724 X10CrA113	403S17		Z10C13
12	430	1.4742 X10CrA118	439S15	60	Z10CAS18
12	HNV6	1.4747 X80CrNiSi20	443S65	59	Z80CSN20.02
12	446	1.4749 x18 cRn 28			
12	446	1.4762 X10CrA124			Z10CAS24
12	EV 8	1.4871 X 53 CrMnNiN 21 9	349 S 54		Z 52 CMN 21.09
12	302	x12 CrNi 18 9	302 S 31		Z 10 CN 18-09
12	429	X10 CrNi 15			
13	420	1.4021 X20Cr13	420S37		Z 20 C 13
13	420	1.4031 X40 Cr 13			Z 40 C 14
13		1.4034 X46Cr13	420 S 45		Z40 C 14
13	431	1.4057 X20CrNi172	431 S 29	57	Z 15 CN 16.02
13		1.4125 X 105 CrMo 17			Z 100 CD 17
13	CA6-NM	1.4313 G-X4 CrNi 13 4	425 C 11		Z 4 CND 13-04 M
13	630	1.4542 X 5 CrNiCuNb 17 4 (X5CrNiCuNb 16-4)			
13		1.4544	S. 524 S. 526		
13	348	1.4546 X5CrNiNb 18-10	347 S 31 2 S. 130 2 S. 143/144/145 S.525/527		
13		1.4922 x20cRmV12-1			
13		1.4923 X22 CrMoV12 1			
14	304	1.4301 X 5 CrNi 18 9	304 S 15		Z 5 CN 18.09
14	303	1.4305 X10 CrNiS 18 9	303 S 21	58M	Z 8 CNF 18-09
14	304L	1.4306 X2CrNi18 9	304S12		Z2CrNi18 10
14	304L	1.4306 X2 CrNi 18 10	304 S 11		Z 3 CN 19-11
14	CF-8	1.4308 X6 CrNi 18 9	304 C 15	58E	Z 6 CN 18-10 M
14	301	1.4310 X12CrN i17 7	301 S 21		Z 12 CN 17.07




 SS	 UNI	 UNE	 JIS	 KS	 ГОСТ
	X10CrA112	F.311			
	X8Cr17	F.3113	SUS430	STS430	
	X80CrSiNi20	F.320B	SUH4	STR4	
2322	X16Cr26		SUH446	STR446	
	X53CrMnNiN21 9		SUH35,SUH36	STR35,STR36	
2330					
2303	14210				
-2304					
	X40Cr14	F.3405	SUS420J2	STS420J2	
2321	X16CrNi16	F.3427	SUS431	STS431	
	X 105 CrMo 17				
2385	(G)X6CrNi304		SCS5	SSC5	
	X 6 CrNiTi 18 11				08Ch 18N12T
	X 6 CrNiNb 18 11				
2317	x20cRmOnl 12 01				
2332;2333					
2346	X10CrNiS18.09	F.3508	SUS303	STS303	
2352	x2cRnI18 11	F.3503	SCS19	SSC19	
2352	X2CrNi18 11				
2333			SUS304L	STS304L	
2331	X2CrNi18 07	F.3517			

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
14	304 LN	1.4311 X2 CrNiN 18 10	304 S 62		Z 2 CN18.10
14		1.4312 G-X10CrNi18 8	302C25		Z10CN18.9M
14	305	1.4312 X8 CrNi 18 12	305 S 19		
14		1.4332 X2 CrNi 18-8			
14	304	1.4350 X5CrNi18 9	304S15	58E	Z6CN18.09
14	S32304	1.4362 X2 CrNiN 23 4			Z 2 CN 23-04 AZ
14	202	1.4371 X3 CrMnNiN 188 8 7	284 S 16		Z 8 CMN 18- 08-05
14	316	1.4401 X 5 CrNiMo 17 12 2 (X4 CrNiMo 17 -12-2)	316 S 13 316 S 17 316 S 19 316 S 31 316 S 33		Z 3 CND 17 -11-01 Z 6 CND 17-11 Z 6 CND 17-11-02 Z 7 CND 17-11-02 Z 7 CND 17-12-02
14	316L	1.4404 X2 CrNiMo 17 13 2 (X2 CrNiMo 17-12-2) GX 2 CrNiMoN 18-10	316 S 11, 316 S 13 316 S 14, 316 S 31; 316 S 42, S.537,316 C 12, T.75, S. 161		Z 2 CND 17-12 Z 2 CND 18-13 Z 3 CND 17-11-02 Z 3 CND 17-12-02 FF Z 3 CND 18-12-03 Z 3 CND 19.10 M
14	316LN	1.4406 X2 CrNiMoN 17 12 2 (X2CrNiMoN 18-10)	316 S 61 316 S 63		Z2 CND 17-12 AZ
14	CF-8M	1.4408 GX 5 CrNiMoN 7 12 2 G-X 6 CrNiMo 18 10	316 C 16 (LT 196) ANC 4 B		
14		1.4410 G-X10CrNiMo18 9			Z5CNaD20.12M
14	316 Ln	1.4429 X2 CrNiMo 17 -13-3	316 S 62		Z 2 CND 17-13 Az
14	316L	1.4435 X2 CrNiMo18 14 3	316 S 11;316 S 13 316 S 14;316 S 31 LW 22 LWCF 22		Z 3 CND 17-12-03 Z 3 CND 18-14-03
14	316	1.4436 X 5 CrNiMo 17 13 3 (X4CRNIMO 17-13-3)	316 S 19; 316 S 31 316 S 33 LW 23 LWCF 23		Z 6 CND 18-12-03 Z 7 CND 18-12-03

					
SS	UNI	UNE	JIS	KS	ГОСТ
2371	X2CrNi18 10		SUS304LN	STS304LN	
2332	X5CrNi18 10	F.3551	SUS304	STS304	
2347	X 5 CrNiMo 17 12	F.3534-X 5 CrNiMo 17 12 2	SUS 316	STS 316	
2348	X 2 CrNiMo 17 12	F.3533 - X 2 CrNiMo 17 13 2			
	G-X 2 CrNiMo 19 11	F.3537 - X 2 CrNiMo 17 13 3	SUS 316 L	STS 316 L	
	X 2 CrNiMoN 17 12	F.3542-X 2 CrNiMoN 17 12 2	SUS316LN	STS316LN	
2343		F.8414-AM-X 7 CrNiMo 20 10	SCS 14	SSC 14	07 Ch 18N10G2S2MSL
2328					
2375	X 2 CrNiMoN 17 13	F.3543-X 2 CrNiMoN 17 13 3	SUS 316 LN	STS 316 LN	
2375	X 2 CrNiMoN 17 13	F.3533-X 2 CrNiMo 17 13 2	SUS 316 L	STS 316 L	O3 Ch 17N14M3
2343	X 5 CrNiMo 117 13 X 8 cRnImO 17 13	F.3543-X 5 CrNiMo 17 12 2 F.3538-X 5 CrNiMo 17 13	SUS 316	STS 316	

# Переводная таблица материалов





## ► По стандарту VDI 3323







Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
14	317L	1.4438 X2 CrNiMo 18 16 4 (X2CrNiMo 18-15-4)	317 S 12		Z 2 CND 19-15-04 z 3 cnd 19-15-04
14	(s31726)	1.4439 X2 CrNiMoN 17 13 5			Z 3 CND 18-14-06 AZ
14		1.4440 X 2 CrNiMo 18 13			
14	317	1.4449 X5 CrNiMo 17 13 3	317 S 16		
14	329	1.4449 X 4 CrNiMo 27 5 2 1.4460 (X3CrNiMo27-5-2)			(Z 3 CND 25-07 Az) Z 5 CND 27-05 Az
14	329	1.4460 X8CrNiMo27 5			
14		1.4462 X2CrNiMoN22 5 3	318 S 13		Z 3 CND 22-05 Az (Z 2 CND 24 -08 Az ) (Z 3 CND 25-06-03 Az)
14		1.4500 G-X7NiCrMoCuNb25 20			Z3NCDU25.20M
14	17-7PH	1.4504	316S111		
14	443 444	1.4521 X2CrMoTi18-2	317 S 16		
14	UNS N 08904	1.4539 X1NiCrMoCuN25-20-5			Z 2 NCDU 25-20
14	CN-7M	1.4539 (G-)X1 NiCrMoCu 25 20 5			Z1 NCDU 25-02 M
14	321	1.4541 Z 6 CrNiTi 18-10	321 S 31 321 S 51 (1010;1105) LW 24 LWCF 24		Z 6 CNT 18-10
14	630	1.4542 X5 CrNiCuNb 17 4 (X5 CrNiChNb 16-4)			Z 7 CNU 15-05 Z 7 CNU 17-04
14	17-4PH	1.4542			Z7CNU17-04
14	S31254	1.4547 X1 CrNiMoN 20 18 7			
14	17-4PH	1.4548			Z7CNU17-04
14	347	1.4550 X6 CrNiNb 18 10	347 S 17	58F	Z 6 CNNb 18.10
14		1.4552 G-X7CrNiNb18 9			Z4CNNb19.10M
14	17-7PH	1.4568	316S111		
14	316Ti	1.4571 X6 CrNiMoTi 17 12 2	320 S 31		Z 6 CNDT 17-12002
14		1.4581 G-X 5 CrNiMoNb	318 C 17		Z 4 CNDNb 18.12 M
14	318	1.4583 X 10CrNiMoNb 18 12	303 S 21		Z15CNS20.12

 SS	 UNI	 UNE	 JIS	 KS	 ГОСТ
2367	X2CrNiMo18 16	f.3539-x 2 cRnlmO 18 16 4	SUS317L	STS317L	
	X 5 CrNiMo 18 15		SUS 317	STS 317	
2324		F.3309-X 8 CrNiMo 17 12 2 F.3552-X 8 CrNiMo 18 16 4	SUS 329 J 1	STS 329 J 1	
2377			SUS 329 J3L	STS 329 J3L	
	Z8CNA17-07	X2CrNiMo1712			
2326		F.3123-X 2 CrMoTiNb 18 2	SUS 444	STS 444	
2562					
2564					
2337	X 6 CrNiTi 18 11	F.3523 - X 6 CrNiTi 18 10	SUS 321	STS 321	06Ch18N10T 08Ch18N10T 09Ch18N10T 12Ch18N10T
			SCS 24 SUS 630	SSC 24 STS 630	
2378					
2338	X6CrNiNb18 11	F.3552	SUS347	STS347	
	Z8CNA17-07	X2CrNiMo1712			
2350					
	x15cRnIsl2 12				

# Переводная таблица материалов





## ► По стандарту VDI 3323

Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
14		1.4585 G-X7CrNiMoCuNb18 18			
14		1.4821 X20CrNiSi25 4			Z20CNS25.04
14		1.4823 G-X40CrNiSi27 4			
14	309	1.4828 X15CrNiSi20 12	309 S 24	58C	Z15CNS20.12
14	309S	1.4833 X6 CrNi 22 13	309 S 13		Z 15 CN 24-13
14	310 S	1.4845 X12 CrNi 25 21	310S24		Z 12 CN 25-20
14	321	1.4878 X6 CrNiTi 18 9	32 1 S 20	58B	Z 6 CNT 18-12 (B)
14	Ss30415	1.4891 X5 CrNiNb 18 10			Z20CNS25.04
14	S30815	1.4893 X8 CrNiNb 11			
14	304H	1.4948 X6 CrNi 18 11	304 S 51		Z 5 CN 18-09
14	660	1.498 X5 NiCrTi 25 15			Zz 8 nctv 25-15 b ff
14		X5 NiCrN 35 25			
14	S31753	X2 CrNiMoN 18 13 4			
14		X2 CrNiMoN 25 22 7			
15	CLASS20	0.6010 GG10			Ft10D
15	A48-20B	0.6010 GG-10			Ft 10 D
15	NO 25 B	0.6015 GG 15	Grade 150		Ft 15 D
15	CLASS25	0.6015 GG 15	Grade 150		Ft 15D
15	A48 25 B	0.6015 GG 15	Grade 150		Ft 15 D
15	A48-30B	0.6020 GG-20	Grade 220		Ft 20 D
15	NO 30 B	0.6020 GG 20	Grade 220		Ft 20 D
15	A436 Type 2	0.6660 GGL-NiCr202	L-NiCuCr202		L-NC 202
15	60-40-18	0.7040 GGG 40	SNG 420/12		FCS 400-12
15	No 20 B	GG 10			Ft 10 D
16	CLASS30	0.6020 GG 20	Grade 220		Ft 20D
16	CLASS45	0.6030 GG 30	Grade 300		Ft 30D
16	A48-45 B	0.6030	Grade 350		Ft 30D
16	A48-50	0.6035 GG-35	Grade 350		Ft 35 D
16	A48-60 B	0.6040 GG40	Grade 400		Ft 40 D
16	100/70/03	0.7070 GGG-70	SNG700/2		FGS 700-2







 SS	 UNI	 UNE	 JIS	 KS	 ГОСТ
	X6CrNiMoTi17 12				
		F.8414	SCS17	SSC17	
2361	X6CrNi25 20	F.331	SUH310	STR310	
2337	X6CrNiTi18 11	F.3553	SUS321	STS321	
2372					
2368					
2333					
2570					
110	G 10				
0110-00					
0115-00	G 15	FG 15	FC150	GC150	
115	G 15	FG 15			
01 15-00	G 14	FG 15			
0120-00					
120	G 20		FC200	GC200	
0523-00					
0717-02	GS 370-17	FGE 38-17	FCD400	GCD400-18,15	
110			FC100	GC100	
120	G 20	FG 20			
130	G 30	FG 30	FC300	GC300	
01 30-00					
135	G 35	FG 35	FC350	GC350	
140					
07 37-01	GGG 70	GGG 70	FCD700	GCD700-2	

# Переводная таблица материалов

## ► По стандарту VDI 3323





Группа материала					
	AISI/SAE	Материал по DIN	BS	EN	AFNOR
16		1.4829 X 12 CrNi 22 12			
17		0.7033 GGG35.3			
17		0.7033 GGG-35.3	350/22 L 40		FGS 370/17
17	60-40-18	0.7040 GGG-40	SNG 420/12		FGS 400-12
17	60/40/18	0.7043 GGG-40.3	370/7		FGS 370/17
17	80-55-06	0.7050 GGG50	SNG500/7		FGS 500/7
17	65-45-12	0.7050 GGG-50	SNG 500/7		FGS 500-7
17		0.7652 GGG-NiMn 13 7	S-NiMn 137		S-Mn 137
17	A43D2	0.7660 GGG-NiCr 20 2	Grade S6		S-NC 202
17		GGG 40.3	SNG 370/17		FGS 370-17
18	A48-40 B	0.6025 GG25	Grade260		Ft 25 D
18		0.7060 GGG60	SNG600/3		FGS600-3
18	80/55/06	0.7060 GGG-60	600/3		FGS 600/3
18	A48 40 B				
19		0.8055 GTW55			
19	32510	0.8135 GTS-35-10	B 340/12		MN35-10
19	A47-32510	0.8135 GTS-35-10	B 340/2		Mn 35-10
19	A220-40010	0.8145 GTS-45-06	P 440/7		Mn 450-6
19		GTS-35	B 340/12		
19			8 290/6		MN 32-8
19	32510	GTS-35	B340/12		MN 35-10
20		0.8035 GTM-35	W340/3		MB35-7
20		0.8040 GTW-40	W410/4		MB40-10
20		0.8045			
20		0.8065 GTMW-65			
20	A220-50005	0.8155 GTS-55-04	P 510/4		Mn 550-4
20	50005	0.8155 GTS-55-04	P 510/4		MP 50-5
20	70003	0.8165 GTS-65-02	P 570/3		Mn 650-3
20	90001	0.8170 GTS-70-02	P 690/2		Mn 700-2
20	A220-90001	0.8170 GTS-70-02			Mn 700-2








					
SS	UNI	UNE	JIS	KS	ГОСТ
0717-15					
0717-15					
0717-02					
0717-15					
0727-02	GGG 50				
	0727-02		FCD 500	GCD 500-7	
0772-00					
0776-00					
0717-12					
125	G 25	FG 25	FC250	GC250	
07 32-03	GGG 60	GGG 60			
0727-03			FCD600	GCD600-3	
		GTW 55			
810		GTS 35			
0815-00					
	0852-00	GMN 45			FCMW370
0810-00					
814			AC4A	AC4A	
08 15			FCMW330	FCMW330	
852		GTM 35			
	GTB40	GTM 40			
	GMB45	GTM 45			
		GTM 65			
0854-00					
0854-00	GMN 55		FCMP490	PMC 490	
0856-00	GMN 65		FCMP590	PMC 590	

# Переводная таблица материалов





## ► По стандарту VDI 3323

Группа материала				
	AISI/SAE	Материал по DIN	BS EN	AFNOR
20		0.8170 GTS-70-02	IP 70-2	
20	1022			
	1518	1.1133 20Mn5	120 M 19	20 M 5
20	1035	1.1183 Cf 35 (C35G)	080 A 35	XC 38 H 1 TS
20	400 10	GTS-45	P440/7	
20	70003	GTS-65	P 570/3	MP 60-3
21	Al99	3.0205		
21	1000	3.0255 Al99.5	L31/34/36	A59050C
21		3.3315 AlMg1		
22		3.1325 AlCuMg 1		
22		3.1655 AlCuSiPb		
22		3.2315 AlMgSi1		
21	7050	3.4345 AlZnMgCuO,5	L 86	AZ 4 GU/9051
23		3.2381 G-AlSi 10 Mg		
23		3.2382 GD-AlSi10Mg		
23		3.2581 G-AlSi12		
23		3.3561 G-ALMg 5		
23	ZE 41	3.5101 G-MgZn4sE1Zr1	MAG 5	
23	EZ 33	3.5103 MgSE3Zn27r1	MAG 6	G-TR3Z2
23	AZ 81	3.5812 G-MgAl8Zn1	NMAG 1	
23	AZ 91	3.5912 G-MgAl9Zn1	MAG 7	
24		2.1871 G-AlCu 4 TiMg		
24		3.1754 G-AlCu5Ni1,5		
24		3.2163 G-AlSi9Cu3		
24	4218 B	3.2371 G-AlSi 7 Mg		
24	SC64D	3.2373 G-AlSi9MGWA		A-S7G
24		3.2373 G-AlSi 9 Mg		
24	QE 22	3.5106 G-MgAg3SE2Zr1	mag 12	
24	GD-AISI12	G-ALMG5	LM5	A-SU12
23-24	A360.2	3.2383 G-AlSi0Mg(Cu)	LM9	

 SS	 UNI	 UNE	 JIS	 KS	 ГОСТ
0862-00	GMN 70		FCMP690	PMC 690	
0864-00					
2132	G 22 Mn 3				
	20 Mn 7	F.1515-20 Mn 6	SMnC 420	SMnC 420	
1572	C 36; C 38		S 35 C	SM 35 C	35
08 52					
858			FCMP540	PMC 540	
811-04					
4231			C4BS	C4BS	
4252					
4253					

# Переводная таблица материалов





## ► По стандарту VDI 3323

Группа материала				
	AISI/SAE	Материал по DIN	BS EN	AFNOR
23-24	A356-72		2789;1973	NF A32-201
23-24	356.1		LM25	
23-24	A413.2	G-ALSi12	LM6	
23-24	A413.1	G-ALSi 12 (Cu)	LM20	
23-24	A413.0	GD-ALSi12		
23-24	A380.1	GD-ALSi8Cu3	LM24	
26	C93200	2.1090 G-CuSn 7 5 pb		U-E 7 Z 5 pb 4
26	C83600	2.1096 G-CuSn5ZnPb	LG 2	
26	C83600	2.1098 G-CuSn 2 Znpb		
26	C23000	2.1182 G-CuPb15Sn	LB1	U-pb 15 E 8
26	C93800	2.1182 G-CuPb15Sn		Uu-PB 15e 8
27		2.0240 CuZn 15		
27	C27200	2.0321 CuZn 37	cz 108	CuZn 36, CuZn 37
27	C27700	2.0321 CuZn 37	cz 108	CuZn 36, CuZn 37
27		2.0590 G-CuZn40Fe		
27	C 86500	2.0592 G-CuZn 35 Al 1	U-Z 36 N 3	HTB 1
27	C 86200	2.0596 G-CuZn 34 Al 2	HTB 1	U-Z 36 N 3
27	C 18200	2.1293 CuCrZr	CC 102	U-Cr 0.8 Zr
28		2.0060 E-Cu57		
28		2.0375 CuZn36Pb3		
28	C 94100	2.0596 G-CuZn 34 Al 2	HTB 1	U-Z 36 N 3
28	C 63000	2.0966 CuAl 10 Ni 5 Fe 4	Ca 104	U-A 10 N
28	B-148-52	2.0975 G-CuAl 10 Ni		
28	C 90700	2.105 G-CuSn 10	CT1	
28	C 90800	2.1052 G-CuSn 12	pb 2	UE 12 P
28	C 81500	2.1292 G-CuCrF 35	CC1-FF	
28		2.4764 CoCr20W15Ni		
31	N 08800	1.4558 X 2 NiCrAlTi 32 20	NA 15	
31	N 08031	1.4562 X 1 NiCrMoCu 32 28 7		



# Переводная таблица материалов



## ► По стандарту VDI 3323

Группа материала	 AISI/SAE	 Материал по DIN	 BS	 EN	AFNOR
31	N 08028	1.4563 X 1 NiCrMoCuN 32 27 4			
31	N 08330	1.4564 X 12 NiCrSi 36 16	NA 17		Z 12 NCS 35.16
31	330	1.4564 X12 NiCrSi 36 16	NA 17		Z 12 NCS 37.18
31		1.4865 G-X40NiCrSi38 18	330 C 40		
31		1.4958 X 5 NiCrAlTi 31 20			
31	AMS 5544	LW2.4668 NiCr19NbMo			NC20K14
32		1.4977 X 40 CoCrNi 20 20			Z 42 CNKDOWNb
33	Monel 400	2.4360 NiCu30Fe	NA 13		NU 30
33	5390A	2.4603			NC22FeD
33	Hastelloy C-4	2.4610 NiMo16Cr16Ti			
33	Nimonic 75	2.4630 NiCr20Ti	HR 5,203-4		NC 20 T
33		2.4630 NiCr20Ti	HR5,203-4		NC20T
33	Inconel 690	2.4642 NiCr29Fe			Nnc 30 Fe
33	Inconel 625	2.4856 NiCr22Mo9Nb	NA 21		NC 22 FeDNb
33	5666	2.4856 NiCr22Mo9Nb			Inconel 625
33	Incoloy 825	2.4858 NiCr21Mo	NA 16		NC 21 Fe DU
34	Monel k-500	2.4375 NiCu30 Al	NA 18		NU 30 AT
34	4676	2.4375 NiCu30Al	3072-76		
34		2.4631 NiCr20TiAl	Hr40,601		NC20TA
34	Inconel 718	2.4668 NiCr19FeNbMo			NC 19 Fe Nb
34	Inconel	2.4694 NiCr16fE7TiAl			
34		2.4955 NiFe25Cr20NbTi			
34	5383	LM2.4668 NiCr19Fe19NbMo	HR8		NC19eNB
34	5391	LW2 4670 S-NiCr13A16MoNb	3146-3		NC12AD
34	5660	LW2.4662 NiFe35Cr14MoTi			ZSNCDT42
34	5537C	LW2.4964 CoCr20W15Ni			KC20WN
34	AMS 5772	C0Cr22W14Ni			KC22WN
35	Inconel X-750	2.4669 NiCr15Fe7TiAl			NC 15 TNb A
35	Hastelloy B	2.4685 G-NiMo28			
35	Hastelloy C	2.4810 G-NiMo30			









# Переводная таблица материалов

## ► По стандарту VDI 3323

Группа материала	 AISI/SAE	 Материал по DIN	 BS	 EN	AFNOR
35	AMS 5399	2.4973 NiCr19Co11MoTi			NC19KDT
35		3.7115 TiAl5Sn2			
36	R 50250	3.7025 Ti 1	2 TA 1		
36	R 52250	3.7225 Ti 1 pd	TP 1		
36	AMS 5397	LW2 4674 NiCo15Cr10MoAlTi			
37		3.7124 TiCu2	2 TA 21-24		
37	R 54620	3.7145 TiAl6Sn2Zr4Mo2Si			
37		3.7165 TiAl6V4	TA 10-13;TA 28		T-A 6 V
37		3.7185 TiAl4Mo4Sn2	TA 45-51; TA 57		
37		3.7195 TiAl 3 V 2.5			
37		TiAl4Mo4Sn4Si0.5			
37	AMS R54520	TiAl5Sn2.5	TA14/17		T-A5E
37	AMS R56400	TiAl6V4	TA10-13/TA28		T-A6V
37	AMS R56401	TiAl6V4ELI	TA11		
38	W 1	1.1545 C105W1	BW 1A		Y1105
38	W210	1.1545 C105W1	BW2		Y120
38		1.2762 75 CrMoNiW 6 7			
38	440C	1.4125 X105 CrMo 17			Z 100 CD 17
38		1.6746 32 nlcRmO 14 5	832 M 31		35 NCD 14
40	Ni- Hard 2	0.9620 G-X 260 NiCr 4 2	Grade 2 A		
40	Ni- Hard 1	0.9625 G-X 330 Ni Cr 4 2	Grade 2 B		
40	Ni- Hard 4	0.9630 G-X 300 CrNiSi 9 5 2			
40		0.9640 G-X 300 CrMoNi 15 2 1			
40	A 532 III A 25% Cr	0.9650 G-X 260 Cr 27	Grade 3 D		
40	A 532 III A 25% Cr	0.9655 G-X 300 CrNMo 27 1	Grade 3 E		
40		1.2419 105 WCr 6	105WC 13		
40	310	1.4841 X15 CrNiSi 25 20	314 S31		Z 15 CNS 25-20
41		0.9635 G-X 300 CrMo 15 3			
41		0.9645 G-X 260 CrMoNi 20 2 1			
41		0.9655 G-X 300 CrNMo 27 1			



					
SS	UNI	UNE	JIS	KS	ГОСТ
1880	C100KU	F-5118	SK3	STC 105(STC3)	
2900	C120KU	CF.515	SUP4	SPS 4	
	0512-00				
	0513-00				
	0466-00				
		107 WCr 5 KU			

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
12D-TF45	E75-E76	6NGU	E232
14D-F45XN	E77-E78	6NKU	E233
14D-F45XNH	E79	6RBE	E233
14D-F45XNW	E80	7EMT	E234
14D-F45XNW-QC	E80	7S-E45	E153
2F	E169-E170	7S-F45	E81
2FB	E224	8D-TE90	E147
2P-TE90	E136-E138	8D-TF90	E58-E59
2P-TF90	E53		
2PKT	E225	<b>A</b>	
2S-TE90AP	E129-E130,E135	ADBH 30XD16	H55
2S-TE90CV	E113-E114	AEB 2	F113
2S-TEF-AP	E197	AES 2-R	F118
2S-TFM90AP	E49,E52	AES 2-XL	F114
3ED-P+	D149	AES 3	F115
3ED-T0-3D	D50	AES 3-ML	F116
3ED-T0-5D	D50	AES 3-R	F119
3ED-T3/T2-3D	D49	AES 3-XL	F117
3ED-T3/T2-5D	D49	AMT MB-MT	H28
3F	E171	ANHX	E235
3FB	E226	ANHX-ANR-M	E234
3HD-PI3	D69	ANMX	E235
3HD-PI5	D70	AOMT-C45	D162
3P TE90	E117-E122	APCT	E236-E238
3P TEF	E192	APKT	E236-E237,E239-E241
3P TES	E193	AWE 3	F121
3P TF90	E41-E43	AWE 3-ML	F121
3PHT	E227	AWE 3-ML-R	F122
3PKT	E227-E228	AXCT	E242
4N TE90	E141-E146	AXCT-L	E241
4N TF90	E56-E57	AXMT	E241-E242
4NHT	E229-E230		
4NKT	E229-E230	<b>B</b>	
4S-TEF	E190	BBH	H55
4S-TES	E191	BBH D16x53	H52
4T-TE90	E115-E116	BES 2-T	F87
4T-TEF	E188	BES 4-T	F87
4T-TES	E189	BHC MB	H36
4T-TF90	E40	BHE MB	H38
4W-TF90	E61	BHE MB-H	H39
4WHU	E231	BHEH	H56
6N TE90	E123-E124		
6N TF90	E44-E46		

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница	
BHF L200	H58	BTSO	D133	
BHF MB	H44-H45	<b>С</b>		
BHF MB-BL	H44			
BHF MB-RV	H44			
BHFH	H56		C-B4340	G112
BHR MB	H30		C-EM	G104-G105
BLANK MB	H29		C-EM-E	G106
BLMP	E243		C-ER	G102-G103
BLMP-13	E244		C-ER-M	G103
BNGX	E245		C-FM	G109
BT-AD	G86		C-MB	H11
BT-DC	G87	C-ODP	G111	
BT-EM	G72-G73	C-SEM-C	G107	
BT-EM-E	G74	C-SEMC	G108	
BT-ER	G65-G66	C-SRKIN	G110	
BT-ER-BIN	G64	CAB M-M	G122	
BT-ER-CLICK-IN	G67	CAB M-M-C	G122	
BT-ER-SHORT	G67	CAB M-SEM-C	G124	
BT-FM	G82	CATM-MB	H8	
BT-FMA	G84	CC MB-ER	H23	
BT-MB	H12	CCGT-FL	H61	
BT-MT	G85	CCGT-SA	H61	
BT-MT-DRW	G86	CCMT-MT	H61	
BT-ODP	G88	CDF	D86	
BT-SCA	G79	CDP ER-M	G124	
BT-SEM	G80	CDP M-SRK	G123	
BT-SEMC	G81	CEM 2	F103	
BT-SRK	G83	CEM 2-C120	F103	
BT-SRKIN	G76	CEM 2-C60	F102	
BT-TC	G70	CENC	D178	
BT-THC	G77-G78	CFM 4-M	F101	
BT-TMC	G71	CFR-A45	D61	
BT-TSK	G68	CHA-45	H34	
BTA-DE4	D128	CHR MB	H21	
BTA-SE2/SE4	D126-D127	CHS MB-R	H21	
BTB-MB	H12	CJA	G156	
BTDI	D134	CMR	G156	
BTDO	D134	CNHX	E246	
BTS-SE1	D129	COLLET 4	D138	
BTS-SE2/SE4	D129	COOLING TUBE	G172	
BTSE	D132-D133	CRF 4	F122	
BTSI	D130-D131	CRF 6	F123	
		CRH 4	F123	

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
CRNG-45CD	D162	DIN69871-SRKIN	G21
CSR	G155	DIN69871-TC	G16
CVHT	E246	DIN69871-THC	G23
CVKT	E246	DIN69871-TMC	G17
CW200	H58	DIN69871-TSK	G14
CW32	H56	DMB 2	F124
<b>D</b>		DMR 2	F125
DC MB	H23	DTC-R	D137
DCMT-PC	H62	DTC-RF	D138
DEB 2-L	F125	DTC-S	D137
DEB 2-S	F124	<b>E</b>	
DER 3-L	F126	EASYLOCK	G176
DER 3-S	F126	ECCENTER SLEEVE	D48
DIN 2079 MB	H18	ECEM 2	F104
DIN2080-CP	G99	ECEM 4	F104
DIN2080-DC	G99	EMH MB	H22
DIN2080-EM	G93	ER TAP	G144
DIN2080-ER	G91	ER-SEAL	G141
DIN2080-FM	G94	ER-SEAL-JET2	G142
DIN2080-MT	G97	ER-SPR	G139
DIN2080-MT-DRW	G98	ER-SPR-AA	G140
DIN2080-SEM	G95	ER-SRF	G161
DIN2080-SEMC	G96	ER-SRK	G157-G158
DIN2080-TMC	G92	ER-SRK-JET2	G159-G160
DIN69871-AD	G31	EROH	G143
DIN69871-DC	G31	EX-MB	H19
DIN69871-EM	G18-G19	<b>F</b>	
DIN69871-EM-E	G20	FITBORE BT-EM-ADB	G69
DIN69871-ER	G11-G12	FITBORE HSK A-EM	G42
DIN69871-ER-BIN	G10	FITBORE SKA-EM-ADB	G15
DIN69871-ER-CLICK-IN	G13	FSM 4-M	F102
DIN69871-ER-SHORT	G13	<b>G</b>	
DIN69871-FM	G27	GFI MT-ER	G127
DIN69871-MT	G29	GFI ST-ER	G127
DIN69871-MT-DRW	G30	GTI BT-ER	G70
DIN69871-ODP	G32	GTI DIN69871-ER	G16
DIN69871-SCA	G28	GTI ER-ST	G126
DIN69871-SEM	G24		
DIN69871-SEM-C	G25		
DIN69871-SEMC	G26		
DIN69871-SRK	G22		

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
GTIN ER-DIN	G162	HSK A-FM	G57
GTIN ER-ISO	G163	HSK A-MB	H9
GTIN ER-JIS	G162	HSK A-MT	G58
GYRO DIN69880-ER	G130	HSK A-ODP	G59
GYRO ST-ER	G129	HSK A-SEM	G54
<b>H</b>		HSK A-SEM-C	G55
HEATING HANDLE	G178	HSK A-SEMC	G56
HES 2-LT	F92	HSK A-SRK	G48
HES 2-LT-R	F97	HSK A-SRKIN	G45-G46
HES 2-T-R	F96	HSK A-THC	G51
HES 2-XLT	F94	HSK A-TMC	G42
HES 4-LT	F93	HSK A-TSK	G41
HES 4-LT-R	F99	HSK E-ER	G38
HES 4-T-R	F98	HSK E-ER-BIN	G35
HES 4-XLT	F95	HSK E-MB	H10
HFM 2	F100	HSK E-ODP	G60
HFM 4	F100	HSK E-SEM	G53
HFN	E247	HSK E-SRK	G49-G50
HNCX	E248	HSK E-THC	G52
HNHX	E249	HSK F-MB	H10
HNMX	E248	HSK FM-ER	G40
HSB 2	F44-F47	HSK FM-SEM	G57
HSB 2-M	F50	HSK FM-SRKIN	G47
HSB 2-S	F49	HSR 2	F62-F68
HSB 2-S6	F48	HSR 2-M	F69-F71
HSB 2CBN	F79	HSR 4	F72-F75
HSB 4-M	F51	HSR 4-M	F76-F77
HSF 2	F52-F55	HSR 6	F78
HSF 2-M	F56-F57	HSR 6-M	F78
HSF 4	F58-F59	HXHU	E250
HSF 4-M	F60	HXKU	E250
HSF 6-M	F61	<b>I</b>	
HSF 6-XLT	F61	IHAXF	H51
HSK A-B16MN	G61	IHAXF-AVI	H53
HSK A-EM	G43	IHAXF-E	H53
HSK A-EM-E	G44	IHBR	H32
HSK A-ER	G36-G37	IHCR	H32
HSK A-ER-BIN	G35	IHFF	H54
HSK A-ER-CLICK-IN	G41	IHFF-C	H37
HSK A-ER-M	G39	IHPR	H32
HSK A-ER-SHORT	G40	IHRF	H54

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
IHRF-BW	H59	LCD-T2-3D	D66
IHRF-C	H37	LCD-T2-5D	D67
IHRF-CH	H60	LCD-T2-8D	D68
IHSR	H32	LM45SD	E92
IHSR-BW	H35	LM45SE	E93
IHSR-C	H37	LM60SC	E72-E73
IHSR-CH	H33	LM75SP	E69
IHWF 14E	H54	LM90SE	E65
IND COOLING COLLET	G177	LM90TP	E64
IND ER11	G174	LNA	E286
IND SHRINKIN UNIT	G177	LNC	E285
IND-HSK	G177	LNCX	E285
ISO-MB	H13	LPHU	E251
ISOM-MB	H13	LPKU	E251
<b>K</b>		<b>M</b>	
KIT BHE MB32-32x53 H	H66	M-CLAMP SCREW	G170
KIT BHE MB50-50x60 H	H67	MB CLAMP	H71
KIT BHE MB50-50x80	H65	MBA M	G171
KIT BHE MB63-63x89	H65	MDB-T2-3	D64
KIT BHE MB80-80x104	H66	MDB-T2-5	D65
KIT BHF MB50-32 BL	H68	MT-ER	G128
KIT BHF MB50-50 6-108	H69	MTA-TC	G128
KIT BHF MB50-50 BL	H68	MTE D-1	C31
KIT BHF MB50-63	H69	MTE D-1-C	C32
KIT BHF MB50-80	H67	MTE D-2	C33
KIT BHF MB63-63	H69	MTE90AX	E126
KIT BHF MB80-80	H67	MTEC E-ISO	C16
KIT BHFH MB80-125	H70	MTEC E-UN	C22
KIT GTI ER-ST	G126	MTEC-BSPT	C27
KIT GYRO ST-ER	G129	MTEC-ISO	C15
KIT GYRO-DIN69880 ER	G130	MTEC-NPT	C26
KIT IHAXF 6-30	H70	MTEC-NPTF	C26
KIT SHRINKIN	G178	MTEC-UN	C21
KIT ST-ER	G149	MTEC-W	C25
KIT ST-ER-M	G149	MTECB-BSPT	C27
KIT-ER	G148	MTECB-ISO	C13
<b>L</b>		MTECB-NPT	C26
LCD-F	D165-D166	MTECB-UN	C20
LCD-P	D164-D165	MTECB-W	C25
		MTECI-A60	C29
		MTECQ-ISO	C16



# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
PS BT-MAZAK	G168	SBE 2-T	F82
PS OTT	G168	SBE 4	F84
PS SK-DIN	G167	SBE 4-T	F85
PTKU	E257	SBMT	E263
<b>R</b>		SBO 2-T	F86
R8 MB50	H17	SBT 3-U	F105
RCFE	F127	SBT 4-U	F105
RCOM	F128	SCGT-FL	H62
RDCF 4	F128	SCKN	E264
RDMX	E260	SCMT-FG	H63
RE MB-AVI	H21	SCMT-MT	H63
RE MB-MB	H20	SCRM90TN	E47-E48
REA 3-L	F120	SCRM90TN-M16	E125
REB-L	F86	SCRM90TN-W32	E125
REH-L	F112	SDKN	E264
REH-M	F111	SEALING SLEEVE 4	D138
REH-S	F110	SED 4-U	F106
REL-L	F101	SED 4-U-C	F108
REMA 3	F120	SED 4-U-R	F107
REMA 3-C	F120	SED 4-UL	F106
RFMR	E255	SED 7	F108
RFMT	E256	SEKN	E265
RING SEMC	G172	SEKX	E265
RNGN	E258	SER	F109
RNMU	E259	SET ER-SEAL	G146
RPGN	E258	SET ER-SEAL-EM	G147
RRFE	F127	SET ER-SEAL-EM JET2	G148
RXHX	E260	SET ER-SEAL-JET2	G146
RXMX	E260	SET ER-SPR	G145
RYHX	E261-E262	SET ER-SPR-AA	G145
RYMX	E261-E262	SET ER-SPR-EM	G147
<b>S</b>		SET ER32 SRK	G178
S M-CT-L	G120-G121	SHD 3-CF	D88
S M-L-C	G119	SHO 10/15/20	D84
S-SXUCR/L	D91	SHO 3-PH	D83
SBE 2	F81	SHO-M	D85
SBE 2-L	F83	SHRINKIN UNIT	G178
SBE 2-LT	F83	SKA-MB	H6
SBE 2-S	F80	SKB-MB	H7
		SLEEVE D8-D16	H52
		SLOT	E266
		SMH-MB	H24
		SNA	E286



# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
SNB	E286	TBTA-FB-SI1	D112
SNET	E267	TBTA-R-SE4	D116-D117
SNEX	E267	TBTA-R-SI1	D118
SNGX	E268-E269	TBTA-TR-DE4	D124
SNHX	E270	TBTA-TR-SE4	D122
SNMX	E268,E270	TBTA-TR-SI1	D123
SOMT-DA	D147	TBTA3-DE4	D97
SOMT-DK	D147	TBTA3-SE4	D95
SOMT-DL	D146	TBTA3-SI1	D96
SOMT-DP	D146	TBTA5-DE4	D102
SPANNER TMC	G173	TBTA5-SE4	D101
SPGG-DA	D149	TBTA5-SI1	D101
SPGX-DW	D163	TBTA7-SE4	D105
SPKN	E272	TBTA7-SI1	D105
SPMG	E271	TBTA9-SE4	D108
SPMG-DG	D148	TBTA9-SI1	D108
SPMG-DK	D148	TCAP-2-25DN	D89
SPMT	E271	TCAP-3-0DN	D90
SQHU	E273	TCC-DIN	H27
SQKU	E273	TCD-F	D159-D160
SR-DIN	G170	TCD-N	D156
ST-ER-F	G115	TCD-P-CO+	D163
ST-ER-M	G114	TCD-P/M/K	D150-D155
ST-ER-MF	G116	TCD-P+	D157-D158
ST-ER-MF D	G117	TCD-P2	D161
ST-ER-S	G118	TCD-S0-1-5D	D52
ST-MB	H14	TCD-S0-12D	D59
ST-MB-E	H15	TCD-S0-3D	D54
ST-SRK	G125	TCD-S0-5D	D56
STUB MB80-60	H25	TCD-S0-8D	D58
SVHT	E274	TCD-T3/T2-1-5D	D51
SVKT	E274	TCD-T3/T2-3D	D53
		TCD-T3/T2-5D	D55
		TCD-T3/T2-8D	D57
		TCD-T3/T2-M	D60
		TCF	E152
T-CHAMFER-T1	D87	TCH	H31, H57
TA-M	G164	TCH A-L	H31, H57
TB-A/B	D222	TCMT	H63
TB-B-T0	D218	TCS-DIN	H26
TB-T-T0	D217	TDB50X	E172
TBSL 20-10-120	D93	TDB50X-WT	E173
TBTA-FB-DE4	D113	TDM	E151
TBTA-FB-SE4	D111		

## T

# Алфавитный указатель

Обозначение	Страница	Обозначение	Страница
TDR 2-T2	D32-D34	TFM75AP	E70
TDR 25-CA-T	D45	TFM75SN	E68
TDR 3-T2	D35-D38	TFM88SN	E66-E67
TDR 35-CA-T	D46-D47	TFM90AN	E54-E55
TDR 4-T2	D39-D41	TFM90AP	E50-E51
TDR 5-T2	D42-D44	TFM90AX	E49
TE90AN	E139-E140	TFM90SN	E66-E67
TE90AP	E131-E134	TFM90SNS	E62
TE90AX	E127-E128	TFM90SNS-QC	E63
TE90XEV	E149	TFM90XEV	E60
TE90XEV-HSK63A	E148	TFMBL	E107-E108
TEBL	E177-E184	TFMBL-13	E109-E110
TEBL-13	E185	TFMBN-09CH	E104
TEBN-09CH	E175	TFMBN-12	E105
TEF	E199	TFMPT	E106
TEF-AN	E195	TFMRN	E102
TEF-AP	E197	TFMRNS	E95-E96
TEF-AX	E197	TFMRP	E103
TEF-TN	E194	TFMRX	E97-E98
TEPT	E176	TFMRY	E99-E101
TERD	E156-E157	TFMSB	E111-E112
TERNS	E154-E155	TGHR	D92
TERP	E167-E168	THC	G153
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TES	E199	TIMC	E275
TES-AN	E196	TIMJ	E275
TES-AP	E198	TIPV	E276
TES-TN	E194	TJS GJET BT	G133
TESB	E186-E187	TJS GJET C	G135
TFM15HNS	E94	TJS GJET ER	G132
TFM43OFS	E90	TJS GJET HSK	G134
TFM43ZOFW	E91	TJS GJET ST	G136
TFM45AN	E87	TJS TSD DISPLAY	G174
TFM45HN	E89	TM-AS	D221
TFM45HNS	E88	TM-BL	D220
TFM45SN	E82	TM-KEY	D216
TFM45SN-QC	E83	TM-SCR	D216
TFM45SNS	E84	TM-TO	D215
TFM45SNS-CA	E85	TMTB-BSPT	C50
TFM45SNW	E86	TMTB-F	C50
TFM55AHNS	E74	TMTB-ISO	C47
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# Алфавитный указатель

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TMTH-UN	C48	TSE 4-M	F90-F91
TMTH-W	C49	TSF	E150
TMTSRH	C34, C37	TSK	G150-G151
TNDH-TP	D62-D63	TSKC	G152
TNF	E161-E163	TSKN	G167
TNFR	E164-E166	TSKS	G174
TNGX	E277	TSL	D93
TNMX	E277	TSM-FD-S/W-ZN	E207-E209
TOGT-RS/GF	D173	TSM-FD-Z	E204-E205
TOOL CLAMP	G175	TSM-FD-ZN	E206
TOP 2-T2	D16-D18	TSM-FF-S/W-ZN	E212-E214
TOP 20-CA	D28	TSM-FF-Z	E210
TOP 3-T2	D19-D21	TSM-FF-ZN	E211
TOP 30-CA	D29	TSM-SL	E202-E203
TOP 4-T2	D22-D24	TSM-TS16	E200-E201
TOP 40-CA	D30-D31	TST-3	F23
TOP 5-T2	D25-D27	TST-4/6	F24
TP MB-M	H25	TST-A45	F25
TPGX	H64	TTB-06	F26
TPH-52B	C56	TTB-C15	F25
TPH-52B05	C57	TTMT PG	C46
TPH-52B10	C58	TTMT- NPTF	C44
TPH-54C	C59	TTMT-BSPT	C45
TPH-54C05	C60	TTMT-ISO	C39
TPH-54C10	C61	TTMT-NPT	C43
TPKN	E278	TTMT-UN	C40-C41
TPMX-LG	D174	TTMT-W	C42
TPMX-RB/RG	D172		
TQ45SNW	E86	<b>W</b>	
TQ90SNS	E63	WCGT	H64
TR	E219	WRENCH COOL TUBE	G172
TR-F	E217	WRENCH ER	G173
TR-F-C	E220	WRENCH-SEMC	G171
TR-S	E216		
TR-T-M60	E218	<b>X</b>	
TR-T-W55	E218	XCGT-C	D167
TRGD	D139-D141	XCGT-TA	D168
TRGDL	D142-D143	XCMT-R-GV	D168
TS-L-NS	D214	XCMT-TC	D169
TS-S-NS	D213	XEVT	E280
TS16	E279	XNHU	E281-E282
TSC	E215		
TSE 2-M	F88-F89		





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