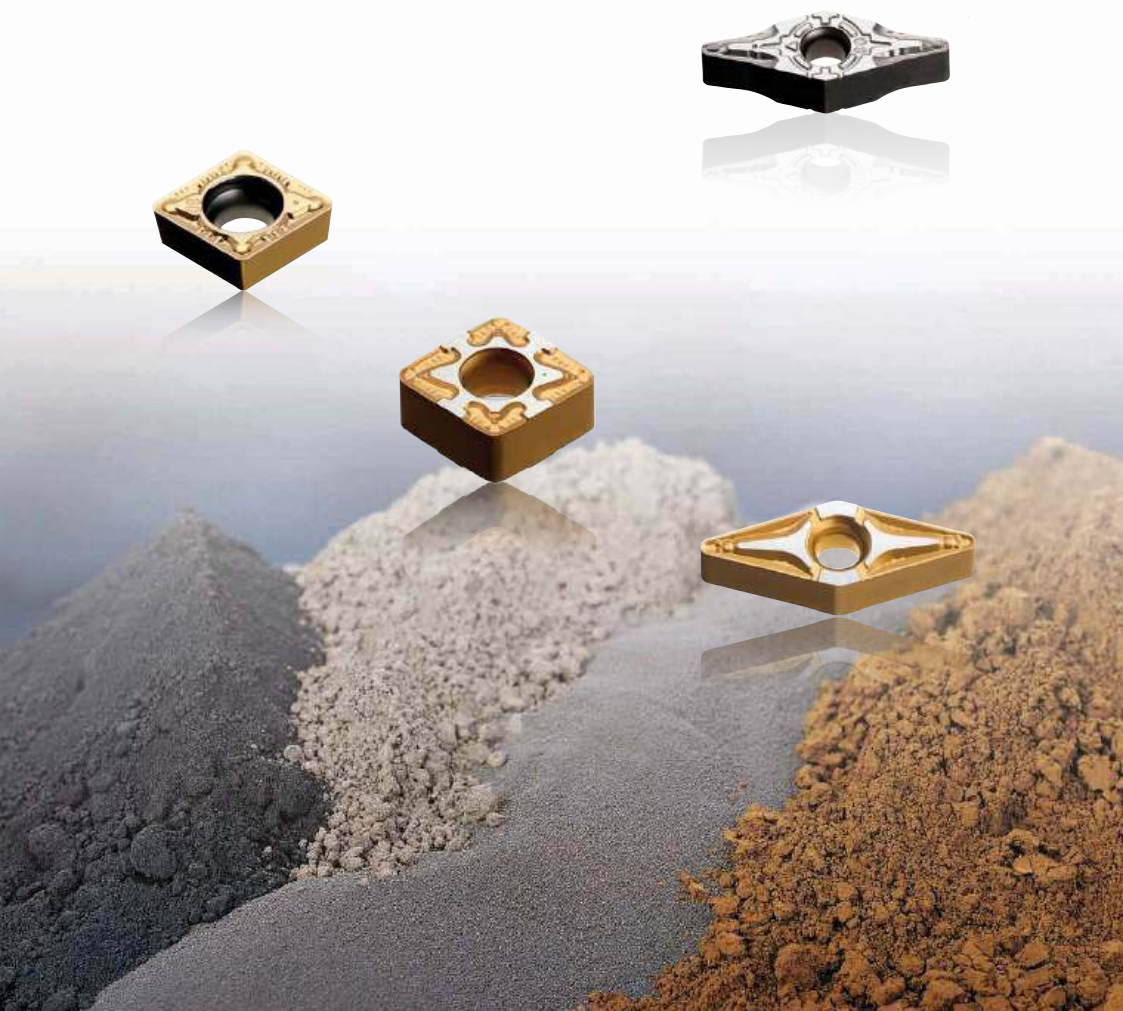


МАТЕРИАЛЫ И СПЛАВЫ



Сравнительная таблица сплавов

▶ Сплавы для точения

ISO	TaeguTec	Sandvik	Walter	Seco	Kennametal	Mitsubishi	Sumitomo	Tungaloy	Kyocera	Korloy	Iscar
P	TT8105	GC4305 GC4205	WPP05	TP0501 TP0500	KCP05	UE6105 UE6005	AC810P AC500G	T9105 T9005	CA5505		
	TT8115	GC4315 GC4215	WPP10S WPP10	TP1501 TP1500 TP1000	KCP10 KCP10B KC9110	MC6015 UE6110 UE6010	AC1000 AC700G	T9115 T9015	CA5515 CA5515	NC3010 NC3015	IC8150 IC9150
	TT8125 TT5100	GC4325 GC4225	WPP20S WMP20S	TP2501 TP2500 TP2000	KCP25 KCP25B KC9125	MC6025 UE6020	AC820P AC2000 ACZ310	T9125 T9025	CA5525 CA5525	NC3220 NC3120 NC3020	IC8250 IC9250
	TT8135 TT7100	GC4235 GC4035 GC2135	WPP30S WPP30	TP3500 TP3000 TP40	KCP30 KCP40 KC9040	UE6135 UH6400	AC830P AC3000	T9135 T9035	CA5535 CR9025	NC3030 NC500H	IC8350 IC9350
M	TT9215	GC2015	WSM10 WAM10	TM2000 CP600 TP200	KCM15	MC7015 US7020 VP05RT	AC610M EH10Z	T6120	CA6515	PC8110 NC9020	IC6015 IC807
	TT9225	GC2025	WMP20S WSM20	CP500	KCM25	MC7025 US735	AC630M AC304	T6130 AH630 T6020	CA6525	NC9025	IC6025 IC9300
	TT9235 TT8020	GC2135 GC2035 GC30	WSM30 WAM30	TM4000 CP600 TP400	KCM35	UH6400 MP7035	AC6040M AC3000	AH645 T6030	PR630	NC5330 PC9030 PC5400	IC3028
K	TT7005	GC3205 GC3005	WKK10S WAK10	TK1001 TK1000	KCK05 KC9315	MC5005 UC5105	AC405K AC410K AC300G	T5105 T5010	CA4505 CA4010	NC6205 NC6105	IC5010 IC4028
	TT7015 TT7310	GC3210 GC3015	WKK20S WAK20	TK2001 TK2000	KCK15 KCK15B KC9325	MC5015 UC5115	AC415K AC500G	T5115 T5020	CA4515 CA4115 CA4120	NC6210 NC6110	IC5005
		GC3215	WAK30		KCK20		AC420K	T5125		NC315K	
S H	TT5080	GCS05F GC1105 GC1115	WSM10	TH1000 TH1500 TS2000 TS2500 CP200	KCU10 KC5510 KC5010	MP9005 MP9015 VP05RT VP10RT	AC510U EH510Z EH10Z	AH110	PR1005 PR930	PC8110	IC807 IC907
	TT9080	GC15 GC1125 GC1025 GC1515 GC1525	WSM21 WSM20 WSM30	CP500	KCU25 KC5525 KC5025	VP15TF VP20RT	AC520U EH20Z	AH120	PR1025 PR1125 PR1225 PR1425	PC5300 PC9530 PC5400	IC808 IC908

Сравнительная таблица сплавов

► Керметы

ISO	TaeguTec	Sandvik	Kennametal	Sumitomo	Kyocera	Tungaloy	Mitsubishi	Korloy	Seco	NTK	Ceramtec
P01	PV3010 PV3030		KT315	T110A T1000A T1500Z	PV30 TN30 PV720 PV7010	GT720 NS710	AP25N NX2525	CC105 CC115 CN1000		T3N	SC35
P10	CT3000	CT5005 CT5015 CT525 GC1525	KT5020 KT125 KT150	T1500A T1200A T2000Z	PV7020 PV7025 PV60 TN6010 TN6020 TN60 TN620	GT730 GT530 NS520 NS720	MP3025 UP35N	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	VP45N NX99 NX3035	CN20 CN30	TP1020 C15M	N20 Z15 C50 C7X	SC7015 SC60
P30				T250A T130A		NS740	NX4545			Q50 N40	
M01	PV3010 PV3030		KT315	T110A	PV30 TN30 PV7010	GT720 NS710	AP25N NX2525	CC105 CC115 CN1000		T3N	SC35
M10	CT3000	CT5005 CT5015 CT525 GC1525	KT5020 KT125 KT150	T1500A T1200A T2000Z	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	T3000Z T130Z	TN100M TC60M PV90	NS730 NS530	VP45N NX99 NX3035	CN20 CN30	TP1020 C15M	N20 Z15 C50 C7X	SC7015 SC60
M30				T250A T130A		NS740	NX4545			Q50 N40	
K01	PV3030		KT315	T110A T1000A T1500Z	PV30 PV7005 PV7020 PV60	NS710 GT720 NS720 NS520	AP25N NX2525	CN1000	CM	T3N Q15	SC8015
K10	CT3000	CT5015	KT125	T1200A T2000Z	TN60 TN6020	GT730 NS730 NS530		CN2000	C15M	T15 Z15 C7Z	SC7015
K20				T3000Z							

Сравнительная таблица сплавов

► Керамические сплавы

Применение	Состав	TaeguTec	Sandvik	Kennametal	Ceramtec	NTK	Kyocera	Sumitomo	Ssang-yong
К	Al ₂ O ₃	AW120	CC620		SN60 SN80	HC1 HW2	KA30		SZ200 SZ300
	Al ₂ O ₃ +TiC	AB30	CC650	KY1615	SH2 SH4	HC2 HC5 HC6	A65	NB90S NB90M	ST100 SD200 TC100
	SiAlON	AS500		KY1310 KY3000	SL506 SL508 SL606 SL608	SX9			SN800
	Si ₃ N ₄	AS10	CC6090 CC6091	KY1320 KY3500 KYK10	SL500 SL808	SX1 SX6 SX8	KS6000 KS6050	SN2000K SN2100K NS260	SN26 SN300 SN400 SN500 SN600
	Si ₃ N ₄ +CVD	SC10	CC1690	KY3400 KYK25	SL550C SL554C SL654C SL658C SL854C SL858C	SP2 SP9	CS7050	NS260C	
H	Al ₂ O ₃ +TiCN	AB20			SH2 SH4	HC2 HC5 HC7			ST300 ST500 ST700
	Al ₂ O ₃ +TiCN + PVD	AB2010	CC6050	KY4400		ZC4 ZC7	A66N PT600M	NB100C	TC300
S	Al ₂ O ₃ +SiCw	TC430	CC670	KY4300		WA1 WA5		WX2000	SW400 SW800
	Si ₃ N ₄ +TiN	AS20	CC6060 CC6065	KY2100 KY1540 KYS30 KYS25		SX5 SX7 SX9	KS6040		SN800 SN900

Сравнительная таблица сплавов

▶ Сплавы CBN









Применение		TaeguTec	Iscar	Tungaloy	Sandvik	Kennametal	Mitsubishi	Seco
Н	Непрерывная обработка	TB610	IB10H IB50	BX310	CB7015	KB1610	MBC010	CBN10
			IB10HC			KB5610 KB9610	MB8025	CBN050C
	Универсальная	TB650	IB20H IB55	BX330 BX530	CB7025	KB1625	MB810	CBN100
		TB670	IB25HC	BX360 BX380	CB50		MB825 MB8025	CBN150 CBN170
К	Универсальная	TB730(KB90)	IB90	BX930 BX850 BX950	CB50	KB1630 KB1345	MB4020 MB710	CBN200
			IB05S IB10S	BX470 BX480	CB7050	KB5630 KB9640	MB730	CBN400C
	Монолитные пластины CBN	KB90A		BX90S BXC90			MBS140	CBN300 CBN350

▶ 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		DX120 DX110	DA2200 DA1000		KD1425	MD205	KPD001	PCD10 PCD05	PD2

Сравнительная таблица токарных стружколомающих геометрий

► Негативные пластины

ISO	Применение	TaeguTec	Sandvik	Kennametal	Seco	Walter		
P	Двусторонняя	Чистовая с ω рег геометрией	WS, WA 	WF	FW	W-MF2	NF	
		Получистовая с ω рег геометрией	WT	WMX, WM	MW	W-M3	NM	
		Чистовая	FA, FS  FX			FF, FS	FF1, FF2	FP5
			FG FM 	QF		FP LF, FN	MF2	NF4
			FC, FT 	PF, XF				NS6
		Получистовая	VF, DNUX 	K			UX	
			MC			MN	MR3	MP3
			PC		PM, XM		MF3	MP5
			MM 		QM	P	MF5, M3	NM4
			MT		HM, XMR	MP RP, RM		NM6 NM9
		Черновая	MG-			MG-, UN	M4 MR4 M5	MG-
			RT		PR	RN	MR7, M6	NR4, RP5
		Низкоуглеродистая сталь	FS 		WL, LC			
		Односторонняя	Тяжелая черновая обработка	RX	PR	RM		NRF
RH	QR MR			MR, RP	R6, RR9 R4, R5, 37 RR6	NR6		
HT, HD HY, HZ	HR, 31			RH	R8, 56, 57 R7	NRR		
M	Двусторонняя	Чистовая	EA, SF	MF	FP	MF1	NF4	
		Получистовая	EM	MM	MP, UP, MR	MF4	NM4	
		Черновая	ET	MR MM-MR	RP	MR6, MF5 MM-RR6	NR4 NRS	
K	Двусторонняя	Чистовая - получистовая	MT	KF KM	KN	MF5 M4	NM, MK5	
		Получистовая	MG-		MG-, RN	M5	NM5, RK5	
		Черновая	KT RT	KR	UN	MR7	RK7	
N	Двусторонняя	Получистовая	ML	QM, 23	MS, MP			
S	Двусторонняя	Чистовая	EA, SF ML	SF	FS	MF1	NF4	
		Получистовая	MP, SU, MK 	SGF, GP- SM, 23 SR, SMR	MS, GP- UP, P RP	M1 MF4, MF5 M5, MR3, MR4	NFT NMS, NMT NRS, NRT	

Valenite	Mitsubishi	Sumitomo	Kyocera	Tungaloy	Korloy	Iscar
W3	SW	LUW, SEW	WP	AFW	VW	WF
W6	MW	GUW	WQ	ASW	LW	WG
F2	FH	FA FL	DP, GP, PP VF	TF, O1 ZF	HU, VL	SF
	LP SH	SU SE	HQ	NS, 11 TS, AS TSF	VG, VF VQ	NF, F3P
	SA	LU	CQ, PQ CJ		VB, VC, HC	
	ES	GX, HM		S AS		
M2	MP, MV MA	GE GU	GS PG PS		HC VM HS, GS	M3P VL
M3		UX, UG	HS CS		HM, GM	GN
	MG-	UZ	MG- C	33, 37, 38 DM, MG-	B25	MG-
R3	MH GH, RP FS, FY SY	ME MU, MX FL	PT, GT PH, HT XF, XP, XP-T XQ, XS PX	TH 17	HR, GR VL	NR, R3P
R6	HZ	MP HG HP	HX	TRS 57	GH	R3P NM
	HCS HX, HBS HV, HDS, HXD	HF HU HW		65 TU	VT VH	
F5	FS, LM MS, GM, MA	SU EX, UP, GU	MQ, GU MS, MU	SF SS, S	HA, VP2 GS, HS	SF, F3M M3M
M5	RM	MU, HM	HU	SM	VM	R3M
	LK MA, MK MG-, GK	UZ	MG- C	CF CM MG-	VM	GN MG-
	GH, RK	GZ	ZS, GC	CH	VK GR	
	MJ	UP, GX, AG	A3, AH	P	HA	PP
F5	FJ MJ	EF SU	MQ TK		VP1 VP2	SF PP
M2	MS GJ	EG, EX, UP MU	MS, MU	HMM, SA	VP3 VM	TF

Сравнительная таблица токарных стружколомающих геометрий

► Позитивные пластины

ISO классификация	Применение	TaeguTec	Sandvik	Kennametal	Seco	Walter
P	Получерновая с Wiper геометрией	WT	WM	MW	W-F2	PM
	Чистовая	FA FX	PF, UF	UF, 11, GM	FF1	PF4, PF5
		SA				
		FG	UM XF	FP LF	F1	PS5
	Получерновая	PC FM	PM	MP		
		MT	XM PR, UR XR	MF	F2	PM5 E47, MT-
		PMR-	PMR-	PMR-		PMR-
N	Чистовая - получистовая	FL	AL	HP	AL	PM2

Valenite	Mitsubishi	Sumitomo	Kyocera	Tungaloy	Korloy	Iscar
	MW					WG
	FV	LU PP	XP GK, GP, DP VF	01, PF, PSF	VL, VF, HFP	38, PF
	SMG	FC	CF, GF GQ CK	JS		
PM3 PM4	SQ, SV	FK SU SC, SK	XQ GK		VF HMP, C05	SM 16, GT-
			HQ	PSS PS		
PM5	MQ, MV MT- G	SF, MU	MT-	PM	C25	14, 17 19, MT-
	PMR-	UJ	GP, HQ G, PMR-	23		
IL	AZ	AW, AG	AH	AL	AK, AR	AF, AS

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 ² (кгс/мм ²)
	Стандартный шарик	Твердосплавный шарик	Шкала А 60кгс алмазный индентор HRA	Шкала В 100кгс шарик 1/16 HRB	Шкала С 150кгс алмазный индентор HRC	Шкала D 100кгс алмазный 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	66.2		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 ² (кгс/мм ²)
	Стандартный шарик	Твердосплавный шарик	Шкала А 60кгс алмазный индентор HRA	Шкала В 100кгс шарик 1/16 HRB	Шкала С 150кгс 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	GOST
	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 A 611 Gr.D	1.0144 S275J2G3 (Fe 430 D 1) St 44-3	Fe 430 D1 FF 4360-43 C; 43 D		E 28-3 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	GOST
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 C 10 1 C 10	FeP 02 G 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	GOST
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;	SM 490 A;B;C;	17GS
2134,	17G1S	Fe 510, D1 FF	YA;YB	YA;YB	17G1S
2174					
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	GOST
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 1038	1.1181 C35E CK 35	080 A 35 (080 M 36)		2 C 35, XC 32 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 1050	1.1206 C50E CK 50	080 M 50		2 C 50 XC 48 H 1; XC 50 H 1
2	1050 1055	1.1213 Cf 53 (C53G)	070 M 55		XC 48 H TS
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	 GOST
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	GOST
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	GOST
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	GOST
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	1.0401 C15	080 M 15		AF 37 C12
	M 1016		080 M 15		XC 18
	M 1017		1449 17 CS		
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	GOST
2506	20NiCrMo2	20NiCrMo2	SNCM220(H)	SNCM220(H)	
	40NiCrMo2(KB)	40NiCrMo2	SNCM240	SNCM240	
2225	25CrMo4(KB)	55Cr3	SCM420/430	SCM420/430	
	21 CrMoV 5 11				
	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	F.124.A			
	36CrMoV12				
			SNC236	SNC236	
2534		f-1270			
1412			SM 400A;B;C	SM 400A;B;C	
	Fep 02	AP 02			08JU
1350	C15				
	C16	F.111	S 15 C	SM 15 C	
	1 C 15				
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 CrMo 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 WCrV 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	 GOST
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	GOST
	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	 GOST
	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	GOST
2371	X2CrNiN18 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 G-X 2 CrNiMo 19 11	F.3533 - X 2 CrNiMo 17 13 2 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	GOST
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	 GOST
	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	GOST
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	 GOST
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	GOST
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			