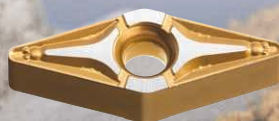
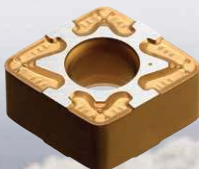


# МАТЕРИАЛЫ И СПЛАВЫ



# Сравнительная таблица сплавов

## ▶ Сплавы для точения

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

# Сравнительная таблица сплавов

## ► Керметы

| ISO | TaeguTec         | Sandvik                             | Kennametal               | Sumitomo                   | Kyocera   | Tungaloy                         | Mitsubishi              | Korloy                    | Seco                | NTK                      | Ceramtec                         |
|-----|------------------|-------------------------------------|--------------------------|----------------------------|---|----------------------------------|-------------------------|---------------------------|---------------------|--------------------------|----------------------------------|
| P01 | PV3010<br>PV3030 |                                     | KT315                    | T110A<br>T1000A<br>T1500Z  | PV30<br>TN30<br>PV720<br>PV7010                               | GT720<br>NS710                   | AP25N<br>NX2525         | CC105<br>CC115<br>CN1000  |                     | T3N                      | SC35                             |
| P10 | CT3000           | CT5005<br>CT5015<br>CT525<br>GC1525 | KT5020<br>KT125<br>KT150 | T1500A<br>T1200A<br>T2000Z | PV7020<br>PV7025<br>PV60<br>TN6010<br>TN6020<br>TN60<br>TN620 | GT730<br>GT530<br>NS520<br>NS720 | MP3025<br>UP35N         | CN1500<br>CN2000<br>CC125 | TP1030<br>CMP<br>CM | T15<br>C30<br>Q50        | SC15<br>SC8015<br>SC7035<br>SC40 |
| P20 | CT7000           | CT530                               | KT1120<br>KT175          | T3000Z<br>T130Z            | TN100M<br>TC60M<br>PV90                                       | NS730<br>NS530                   | VP45N<br>NX99<br>NX3035 | CN20<br>CN30              | TP1020<br>C15M      | N20<br>Z15<br>C50<br>C7X | SC7015<br>SC60                   |
| P30 |                  |                                     |                          | T250A<br>T130A             |   | NS740                            | NX4545                  |                           |                     | Q50<br>N40               |                                  |
| M01 | PV3010<br>PV3030 |                                     | KT315                    | T110A                      | PV30<br>TN30<br>PV7010  | GT720<br>NS710                   | AP25N<br>NX2525         | CC105<br>CC115<br>CN1000  |                     | T3N                      | SC35                             |
| M10 | CT3000           | CT5005<br>CT5015<br>CT525<br>GC1525 | KT5020<br>KT125<br>KT150 | T1500A<br>T1200A<br>T2000Z | PV7020<br>PV60<br>TN6010<br>TN6020<br>TN60                    | GT730<br>GT530<br>NS520<br>NS720 | MP3025<br>UP35N         | CN2000<br>CC125           | TP1030<br>CMP<br>CM | T15<br>C30<br>Q50        | SC15<br>SC8015<br>SC7035<br>SC40 |
| M20 | CT7000           | CT530                               | KT1120<br>KT175          | T3000Z<br>T130Z            | TN100M<br>TC60M<br>PV90                                       | NS730<br>NS530                   | VP45N<br>NX99<br>NX3035 | CN20<br>CN30              | TP1020<br>C15M      | N20<br>Z15<br>C50<br>C7X | SC7015<br>SC60                   |
| M30 |                  |                                     |                          | T250A<br>T130A             |   | NS740                            | NX4545                  |                           |                     | Q50<br>N40               |                                  |
| K01 | PV3030           |                                     | KT315                    | T110A<br>T1000A<br>T1500Z  | PV30<br>PV7005<br>PV7020<br>PV60                              | NS710<br>GT720<br>NS720<br>NS520 | AP25N<br>NX2525         | CN1000                    | CM                  | T3N<br>Q15               | SC8015                           |
| K10 | CT3000           | CT5015                              | KT125                    | T1200A<br>T2000Z           | TN60<br>TN6020  | GT730<br>NS730<br>NS530          |                         | CN2000                    | C15M                | T15<br>Z15<br>C7Z        | SC7015                           |
| K20 |                  |                                     |                          | T3000Z                     |   |                                  |                         |                           |                     |                          |                                  |

# Сравнительная таблица сплавов

## ► Керамические сплавы

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

# Сравнительная таблица сплавов

## ▶ Сплавы CBN

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

## ▶ Сплавы PCD

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

# Сравнительная таблица токарных стружколомающих геометрий

## ► Негативные пластины

| ISO              | Применение   | TaeguTec                        | Sandvik                    | Kennametal        | Seco                         | Walter                   |                      |            |
|------------------|--------------|---------------------------------|----------------------------|-------------------|------------------------------|--------------------------|----------------------|------------|
| P                | Двусторонняя | Чистовая с wiper геометрией     | WS, WA                     | WF                | FW                           | W-MF2                    | NF                   |            |
|                  |              | Получистовая с Wiper геометрией | WT                         | WMX, WM           | MW                           | W-M3                     | NM                   |            |
|                  |              | Чистовая                        | FA, FS<br>FX               |                   |                              | FF, FS                   | FF1, FF2             | FP5        |
|                  |              |                                 | FG<br>FM                   | QF                |                              | FP<br>LF, FN             | MF2                  | NF4        |
|                  |              | Получистовая                    | FC, FT                     | PF, XF            |                              |                          | NS6                  |            |
|                  |              | Получерновая                    | VF, DNUX                   | K                 |                              |                          | UX                   |            |
|                  |              |                                 | MC                         |                   |                              | MN                       | MR3                  | MP3        |
|                  |              |                                 | PC                         |                   | PM, XM                       |                          | MF3                  | MP5        |
|                  |              |                                 | MM                         |                   | QM                           | P                        | MF5, M3              | NM4        |
|                  |              |                                 | MT                         |                   | HM, XMR                      | MP<br>RP, RM             |                      | NM6<br>NM9 |
|                  |              | Черновая                        | MG-                        |                   | MG-, UN                      | M4<br>MR4<br>M5          | MG-                  |            |
|                  |              | RT                              | PR                         | RN                | MR7, M6                      | NR4, RP5                 |                      |            |
|                  |              | FS                              | WL, LC                     |                   |                              |                          |                      |            |
|                  |              | Односторонняя                   | Тяжелая черновая обработка | RX                | PR                           | RM                       |                      | NRF        |
| RH               | QR<br>MR     |                                 |                            | MR, RP            | R6, RR9<br>R4, R5, 37<br>RR6 | NR6                      |                      |            |
| HT, HD<br>HY, HZ | HR, 31       |                                 |                            | RH                | R8, 56, 57<br>R7             | NRR                      |                      |            |
|                  |              |                                 |                            |                   |                              |                          |                      |            |
| M                | Двусторонняя | Чистовая                        | EA, SF                     | MF                | FP                           | MF1                      | NF4                  |            |
|                  |              | Получерновая                    | EM                         | MM                | MP, UP, MR                   | MF4                      | NM4                  |            |
|                  |              | Черновая                        | ET                         | MR<br>MM-MR       | RP                           | MR6, MF5<br>MM-RR6       | NR4<br>NRS           |            |
| K                | Двусторонняя | Чистовая -<br>получистовая      | MT                         | KF<br>KM          | KN                           | MF5<br>M4                | NM, MK5              |            |
|                  |              | Получерновая                    | MG-                        |                   | MG-, RN                      | M5                       | NM5, RK5             |            |
|                  |              | Черновая                        | KT<br>RT                   | KR                | UN                           | MR7                      | RK7                  |            |
| N                | Двусторонняя | Получерновая                    | ML                         | QM, 23            | MS, MP                       |                          |                      |            |
| S                | Двусторонняя | Чистовая                        | EA, SF<br>ML               | SF<br>SGF, GP-    | FS<br>MS, GP-                | MF1<br>M1                | NF4<br>NFT           |            |
|                  |              | Получерновая                    | MP, SU, MK                 | SM, 23<br>SR, SMR | UP, P<br>RP                  | MF4, MF5<br>M5, MR3, MR4 | NMS, NMT<br>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<br>FL           | DP, GP, PP<br>VF                                 | TF, O1<br>ZF            | HU, VL             | SF             |
|          | LP<br>SH                       | SU<br>SE           | HQ   | NS, 11<br>TS, AS<br>TSF | VG, VF<br>VQ       | NF, F3P        |
|          | SA                             | LU                 | CQ, PQ<br>CJ                                     |                         | VB, VC, HC         |                |
|          | ES                             | GX, HM             |  | S<br>AS                 |                    |                |
| M2       | MP, MV<br>MA                   | GE<br>GU           | GS<br>PG<br>PS                                   |                         | HC<br>VM<br>HS, GS | M3P<br>VL      |
| M3       |                                | UX, UG             | HS<br>CS   |                         | HM, GM             | GN             |
|          | MG-                            | UZ                 | MG-<br>C   | 33, 37, 38<br>DM, MG-   | B25                | MG-            |
| R3       | MH<br>GH, RP<br>FS, FY<br>SY   | ME<br>MU, MX<br>FL | PT, GT<br>PH, HT<br>XF, XP, XP-T<br>XQ, XS<br>PX | TH<br>17                | HR, GR<br>VL       | NR, R3P        |
| R6       | HZ                             | MP<br>HG<br>HP     | HX   | TRS<br>57               | GH                 | R3P<br>NM      |
|          | HCS<br>HX, HBS<br>HV, HDS, HXD | HF<br>HU<br>HW     |  | 65<br>TU                | VT<br>VH           |                |
| F5       | FS, LM<br>MS, GM, MA           | SU<br>EX, UP, GU   | MQ, GU<br>MS, MU                                 | SF<br>SS, S             | HA, VP2<br>GS, HS  | SF, F3M<br>M3M |
| M5       | RM                             | MU, HM             | HU   | SM                      | VM                 | R3M            |
|          | LK<br>MA, MK<br>MG-, GK        | UZ                 | MG-<br>C   | CF<br>CM<br>MG-         | VM                 | GN<br>MG-      |
|          | GH, RK                         | GZ                 | ZS, GC   | CH                      | VK<br>GR           |                |
|          | MJ                             | UP, GX, AG         | A3, AH   | P                       | HA                 | PP             |
| F5       | FJ<br>MJ                       | EF<br>SU           | MQ<br>TK   |                         | VP1<br>VP2         | SF<br>PP       |
| M2       | MS<br>GJ                       | EG, EX, UP<br>MU   | MS, MU   | HMM, SA                 | VP3<br>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<br>FX | PF, UF             | UF, 11, GM | FF1  | PF4, PF5        |
|                   |                                 | SA       |                    |            |      |                 |
|                   |                                 | FG       | UM<br>XF           | FP<br>LF   | F1   | PS5             |
|                   | Получерновая                    | PC<br>FM | PM                 | MP         |      |                 |
|                   |                                 | MT       | XM<br>PR, UR<br>XR | MF         | F2   | PM5<br>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<br>PP           | XP<br>GK, GP, DP<br>VF | 01, PF, PSF | VL, VF, HFP    | 38, PF            |
|            | SMG                | FC                 | CF, GF<br>GQ<br>CK     | JS          |                |                   |
| PM3<br>PM4 | SQ, SV             | FK<br>SU<br>SC, SK | XQ<br>GK               |             | VF<br>HMP, C05 | SM<br>16, GT-     |
|            |                    |                    | HQ                     | PSS<br>PS   |                |                   |
| PM5        | MQ, MV<br>MT-<br>G | SF, MU             | MT-                    | PM          | C25            | 14, 17<br>19, MT- |
|            | PMR-               | UJ                 | GP, HQ<br>G, PMR-      | 23          |                |                   |
| IL         | AZ                 | AW, AG             | AH                     | AL          | AK, AR         | AF, AS            |

# Сравнительная таблица твердости

| Твёрдость по Викерсу<br>50кг<br>HV | Твёрдость по Бриггелло, шарик 10мм<br>нагрузка 3000кгс |                      | Твёрдость по Роквеллу                        |  |   |   | Твёрдость по Шору<br>HS | Предел прочности<br>Н/мм <sup>2</sup><br>(кгс/мм <sup>2</sup> ) |
|------------------------------------|--|----------------------|--|--|---|---|-------------------------|---|
|                                    | Стандартный шарик                                      | Твердосплавный шарик | Шкала А<br>60кгс<br>алмазный индентор<br>HRA | Шкала В<br>100кгс<br>шарик 1/16<br>HRB | Шкала С<br>150кгс<br>алмазный индентор<br>HRC | Шкала D<br>100кгс<br>алмазный индентор<br>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<br>HV | Твёрдость по Бринеллю, шарик 10мм<br>нагрузка 3000кгс |                      | Твёрдость по Роквеллу                        |  |   |   | Твёрдость по Шору<br>HS | Предел прочности<br>Н/мм <sup>2</sup><br>(кгс/мм <sup>2</sup> ) |
|---------------------------------|---|----------------------|--|--|---|---|-------------------------|---|
|                                 | Стандартный шарик                                     | Твердосплавный шарик | Шкала А<br>60кгс<br>алмазный индентор<br>HRA | Шкала В<br>100кгс<br>шарик 1/16<br>HRB | Шкала С<br>150кгс<br>алмазный индентор<br>HRC | Шкала D<br>100кгс<br>алмазный индентор<br>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)<br>1008  | 0.0030 C10  | 040 A 10<br>045 M 10<br>1449 10 CS  |  | AF 34 C 10<br>XC 10 |
| 1                |   | 1.0028 Ust 34-2 (S250G1T)   |   |  | A 34-2              |
| 1                |   | 1.0034 RSt 34-2 (S250G2T)   | 1449 34/20 HR,<br>HS, CR, CS  |  | A 34-2 NE           |
| 1                |   | 1.0035 St185 (Fe 310-0)<br>St 33  | Fe 310-0<br>1449 15 HR, HS  |  | A 33                |
| 1                | A 570<br>Gr. 33,36  | 1.0036 S235JRG1 (Fe 360 B)<br>Ust 37-2  | Fe 360 B<br>4360-40 B   |  |                     |
| 1                |   | 1.0037 S235JR (Fe 360 B)<br>St 37-2   | Fe 360 B<br>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)<br>St44-2  | Fe 430 B FN<br>1449 43/25 HR, HS<br>4360-43 B                                     |  | E 28-2              |
| 1                |   | 1.0045 S355JR   | 4360-50 B   |  | E 36-2              |
| 1                | A 570 Gr.50<br>A 572 Gr.50  | 1.0050 E295 (Fe 490-2)<br>St 50-2   | Fe 490-2 FN<br>4360-50 B  |  | A 50-2              |
| 1                | A 572 Gr. 65  | 1.0060 E335 (Fe 590-2)<br>St 60-2   | Fe 60-2<br>4360-55 E; 55 C  |  | A 60-2              |
| 1                |   | 1.0060 St 60-2  |   |  |                     |
| 1                |   | 1.0070 E360 (Fe 690-2)<br>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<br>A 573 Gr.58<br>A 570 Gr 36;C<br>A 611 Gr. C                         | 1.0116 S235J2G3 (Fe 360 D 1)<br>St 37-3   | Fe 360 D1 FF<br>1449 37/23 CR<br>4360-40 D  |  | E 24-3<br>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<br>1 C 10  | F.1511<br>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<br>1449 37/23 HR   | AE 235 B<br>Fe 360 B  | STKM 12A;C  | STKM 12A;C  |   |
| 1325  | Fe 330, Fe 330 B FU   |   | SS 330  | SS 330  |   |
| 1412  | Fe 430 B<br>Fe 430 B FN   | AE 275 B<br>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<br>Fe 590   | A 590-2<br>Fe 590-2 FN  | SM 570  | SM 570  | St6ps; sp   |
|   | Fe 60-2   |   |   |   |   |
| 1655  | Fe 70-2<br>Fe 690   | A 690-2<br>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<br>Fe 360 D FF<br>Fe 37-2   | AE 235 D<br>Fe 360 D1 FF  |   |   | St3kp; ps; sp<br>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<br>A 611 Gr.D  | 1.0144 S275J2G3 (Fe 430 D 1)<br>St 44-3   | Fe 430 D1 FF<br>4360-43 C; 43 D   |  | E 28-3<br>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<br>045 M 10<br>1449 10 CS  |  | AF 34 C 10<br>XC 10         |
| 1                | A 621 (1008)  | 1.0330 DC 01<br>St 2; St 12   | 1449 4 CR<br>1449 3 CS  |  | TE                          |
| 1                | A 619 (1008)  | 1.0333 Ust 3 (DC03G1)<br>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<br>St4; St 14   | 1449 1 CR;2 CR  |  | ES                          |
| 1                | A 516 Gr. 65; 55<br>A 515 Gr. 65;55<br>A 414 Gr. C<br>A 442 Gr.55                 | 1.0345 P235GH<br>HI   | 1501 Gr. 141-360<br>1501 Gr. 161-360; 151-360<br>1501 Gr. 161-400; 154-360<br>1501 Gr. 164-360; 161-360 |  | A 37 CP;AP                  |
| 1                | (M) 1020<br>M 1023  | 1.0402 C22  | 055 M 15, 070 M 20 2C/2D<br>1499 22 HS, CS  |  | AF 42 C 20;<br>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;<br>XC 25;1 C 22 |
| 1                |   | 1.0425 P265GH H II  | 1501 Gr. 161-400;151-400<br>1501 Gr. 164-360; 161-400<br>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<br>1414   | Fe 430 B, Fe 430 C (FN)<br>Fe 430 D (FF)  | AE 275 D<br>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<br>C 10<br>1 C 10  | FeP 02 G<br>F.1511<br>F.151.A   | S 10C   | SM 10C  | 10   |
| 1142   | FeP 00<br>FeP 01<br>FeP 02  | AP 11<br>AP 02  | SPHD<br>SPCD  | SPHD<br>SPCD  | 15kp   |
|  | FeP 12<br>FeP 13  | AP 12<br>AP 13  | SPHE<br>SPHE  | SPHE<br>SPHE  | 10kp<br>08kp   |
| 1147   | FeP 04  | AP 04   | SPCE  | SPCE  | 08jU; JUA  |
| 1331<br>1330   | FeE235, Fe 360 1 KW;KG<br>Fe 360 2 KW;KG  | A 37 RC I<br>RA II  | SGV 410, SGV<br>450, SGV 48, SPV<br>450;SPV 480                                   | SGV 410, SGV 450,<br>SGV 480, SPPV<br>450;SPPV 480                                |  |
| 1450   | C 20<br>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;<br>C 21;C 25  | 1 C 22F.112   | S 20 C;S 22 C   | SM 20 C;SM 22C  |  |
| 1431<br>1430<br>1432<br>1305   | Fe 410 1 KW; KG;<br>KT Fe 410 2 KW; KG  | A 42 RC I<br>A 42 RC II   | SPV 315; SPV 355<br>SG 295; SGV 410<br>SGV 450; SGV 480                           | SPPV 315; SPPV 355<br>SG 295; SGV 410<br>SGV 450; SGV 480                         | 16K<br>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<br>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<br>A 588  | 1.0562 P355N<br>StE 355   | 1501 Gr.225-490A LT 20   |   | FeE 355 KG N<br>E 355 R/FP;<br>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<br>St 52-3  | Fe 510 D1 FF<br>1449 50/35 HR>HS<br>4360-50 D  |   | E 36-3<br>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<br>(11SMnPb30)  |  |   | S 250 Pb   |
| 1                | 1108<br>1109   | 1.0721 10 S 20  | (210 M 15)   |   | 10S20<br>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<br>(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<br>(C10E)  | 040 A 10   |   | XC 10  |
| 1                |  | 1.1121 St 37-1  | 4360 40 A  |   |  |
| 1                | 1015   | 1.1141 CK 15<br>(C15E)  | 040 A 15<br>080 M 15   | 32C   | XC 12 XC 15<br>XC 18   |
| 1                | 1020<br>1023   | 1.1151 C22E<br>CK 22  | 055 M 15<br>(070 M 20)   |   | 2 C 22 XC 18<br>XC 25  |
| 1                | D 3  | 1.2080 X 210 Cr 12  | BD 3   |   | Z 200 C 12   |









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|--|---|---|---|---|--|
| SS   | UNI   | UNE   | JIS   | KS  | GOST   |
| 2106   | FeE 355 KG;KW   | AEE 355 KG;DD   | SM 490 A;B;C;<br>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<br>SUM 23 L, SUM 24 L  | SUM 22 L<br>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<br>FeE 560 TM  |   |   |   |  |
| 1265   | C 10, 2 C 10<br>2 C 15  | F-1510-C 10 K   | S 9 CK<br>S 10 C  | S 9 CK<br>S 10 C  | 08;10  |
| 1300   |   |   |   |   |  |
| 1370   | C 15  | C 16<br>F.1110-C 15<br>F.1511-C 16 K  | S 15<br>S 15 CK   | SM 15C<br>SM 15CK   | 15   |
| 1450   | C 20  | C 25<br>F.1120-C 25 K   | S 20 C, S 20 CK<br>S 22 C   | SM 20 C, SM20 CK<br>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<br>A 414 Gr. G<br>A 612  | 1.0473 P355GH   | 19 Mn 6   |  | A 52 CP                       |
| 2                | 1035  | 1.0501 C 35   | 080 A 32, 080 A 35<br>080 M 36,<br>1449 40 CS                                     |  | 1 C 35<br>AF 55 C 35<br>XC 38 |
| 2                | 1045  | 1.0503 CF 45<br>(C45G)  | 060 A 47<br>080 M 46  |  | XC 42 H 1 TS                  |
| 2                | 1040  | 1.0511 C 40   | 080 M 40  |  | 1 C 40<br>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<br>1501 Gr.224-460<br>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<br>1041  | 1.1157 40Mn4  | 150 M 36  | 15   | 35 M 5<br>40 M 5              |
| 2                | 1025  | 1.1158 C25E<br>CK 25  | (070 M 25)  |  | 2 C 25<br>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                         |

| <br>SS | <br>UNI | <br>UNE | <br>JIS | <br>KS | <br>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<br>AE 355 D   |  |   |  |
| 1957   |  | F.210.G  |  |   |  |
| 1973   |  |  | S 09CK   | SMn 433   |  |
| C 25   | F.1120 - C 25 K  | S 25 C<br>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<br>Cm 35  | 080 A 35  |  | 3 C 35<br>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<br>CK 35  | 080 A 35<br>(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;<br>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<br>A 515 Gr. 70<br>A 414 Gr.F; G                                      | 1.0481 P295GH<br>17 Mn 4  | 1501 Gr. 224  |  | a 48 Cp;AP                                |
| 3                | 1043  | 1.0503 C35  | 060 A 47<br>080 M 46<br>1449 50 HS, CS  |  | 1 C 45<br>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<br>1330  | 1.1165 30Mn5  | 120 M 36<br>(150 M 28)  |  | 35 M 5                                    |
| 3                | 1335  | 1.1167 30Mn5  | 150 M 36  |  | 40 M 5                                    |
| 3                | 1040  | 1.1186 C40E<br>CK 40  | 060 A 40, 080 A 40<br>080 M 40  |  | 2 C 40<br>XC 42 H 1                       |
| 3                | 1045  | 1.1191 C45E<br>CK 45  | 080 M 46<br>060 A 47  |  | 2 C 45<br>XC 42 H 1<br>XC 45<br>XC 48 H 1 |

| <br>SS | <br>UNI | <br>UNE | <br>JIS | <br>KS | <br>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<br>Fe 510-2 KG;KT;KW<br>FeE 295  | A 47 RC I RA II  | SG 365, SGV 410<br>SGV 450<br>SGV 480  | SG 365, SGV 410<br>SGV 450<br>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<br>f.8311-AM 30 Mn 5  | SMn 433 H<br>SCMn 2  | SMn 433 H<br>SCMn 2   | 27ChGSNMDTL<br>30GSL  |
| 2120  |  | F. 1203-36 Mn 6<br>F. 8212-36 Mn 5   | SMn 438 (H)<br>SCMn 3  | SMn 438 (H)<br>SCMn 3   | 35G2<br>35GL  |
|   | C 40   |  | S 40 C   | SM 40 C   |   |
| 1672  | C 45<br>C 46   | F.1140-C 45 K<br>F.1142-C48 K  | S 45 C<br>S 48 C   | S 45 C<br>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<br>Cm 45  | 080 M 46  |  | 3 C 45<br>XC 42 H 1<br>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<br>AF 70 C 55             |
| 4                | 1060  | 1.0601 C60  | 060 A 62<br>1449 HS,CS  | 43D  | 1 C 60<br>AF 70 C 55             |
| 4                | 1070  | 1.0603 C67  | 080 A 67<br>1449 70HS   |  | XC65                             |
| 4                | 1074<br>1075  | 1.0605 C75  | 1449 80 HS  |  |                                  |
| 4                | 1055  | 1.1203 C55E<br>CK 55  | 060 A 57<br>070 M 55  |  | 2 C 5<br>XC 55 H 1               |
| 4                | 1055  | 1.1209 C55R<br>Cm 55  | 070 M 55  |  | 3 C 55<br>XC 55 H 1              |
| 4                | 1060<br>1064  | 1.1221 C60E<br>CK 60  | 060 A 62  | 43D  | 2 C 60<br>XC 60 H 1              |
| 4                | 1070  | 1.1231 CK 67<br>(C67E)  | 060 A 67  |  | XC 68                            |
| 4                | 1074<br>1075<br>1078  | 1.1248 CK 75<br>(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   |   |  |                                  |







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| SS  | UNI   | UNE   | JIS   | KS  | GOST   |
| 1660  | C 45  | F.1145-C 45K-1<br>F.1147C 48 K-1  | S 50 C  | SM 50 C   |  |
| 18 CrMo 4   | A 18 CrMo 4 5 KW<br>A 18 CrMo 4 5 KW<br>16 CrMo 20 5                              |   |   |   |  |
| 2142  |   |   |   |   |  |
| 1655  | C 55<br>1 C 55  |   | S 55 C  | SM 55 C   | 55   |
|   | C 60<br>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<br>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<br>535 A 99   | 31   | 100 C 6                   |
| 6                |   | 1.5024 46Si7  |   |  | 45 S 7; Y 46<br>7;46 SI 7 |
| 6                | 9255  | 1.5025 51Si7  |   |  | 51 S 7<br>51 Si 7         |
| 6                | 9255  | 1.5026 55Si7  | 251 a 58  |  | 55 S 7                    |
| 6                | 9260  | 1.5027 60Si7  | 251 A 60<br>251 H 60  |  | 60 S 7                    |
| 6                | 9260 H  | 1.5028 65Si7  |   |  | 60 S 7                    |
| 6                |   | 1.5120 38 MnSi 4  |   |  |                           |









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|---|---|---|---|---|--|
| 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<br>4017  | 1.5415 16Mo3<br>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)<br>RSt 37-2  | Fe 360 B FU<br>1449 27/23 CR<br>4360-40 B   |  | E 24-2NE    |
| 7                | 3135  | 1.5710 36NiCr6  | 640A35  |  | 35NC6       |

|  |  |  |  |  |  |
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| 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)<br>SNC815(H)  |   |   |  |
|   | 14NiCrMo13  |   |   |   |  |
|   | 14NiCrMo131   |   |   |   |  |
|   | 34Cr4(KB)   | 35Cr4   | SCr415(H)<br>SCr430(H)  | SCr415(H)<br>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<br>13MoCrV6  |   |   |  |
| 2940  | 41CrAlMo7   | 41CrAlMo7   |   |   |  |
| 1312  | Fe 360 B FN   | AE 235 B FN;FU<br>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<br>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<br>RSt;RRSt 13  | 1449 3 CR<br>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<br>40NiCrMo2(KB)  | 20NiCrMo2<br>40NiCrMo2  | SNCM220(H)<br>SNCM240   | SNCM220(H)<br>SNCM240   |  |
| 2225  | 25CrMo4(KB)<br>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<br>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<br>C16<br>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<br>15 S 20   | 210 A 15<br>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 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<br>06-05-05-04-02   |
| 11               |   | 1.3246 S 7-4-2-5  |   |  | Z110 WKCDV<br>07-05-04  |
| 11               |   | 1.3247 S 2-10-1-8   | BM 42   |  | Z110 DKCWW<br>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<br>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<br>09-04-02- |



| <br>SS | <br>UNI | <br>UNE | <br>JIS | <br>KS | <br>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<br>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<br>409 S 19   |  | Z 3 CT 12        |
| 12               |   | 1.4720 X20CrMo13  |   |  |                  |



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| SS  | UNI   | UNE   | JIS   | KS  | GOST   |
|   | X45CrSi8  | F322  | SUH1  | STR1  |  |
| 2301  | X6Cr13  | F.3110<br>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<br>(X5CrNiCuNb 16-4)                                     |   |  |                 |
| 13               |   | 1.4544  | S. 524<br>S. 526  |  |                 |
| 13               | 348   | 1.4546 X5CrNiNb 18-10   | 347 S 31<br>2 S. 130<br>2 S. 143/144/145<br>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   |

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|---|---|---|---|---|--|
| 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<br>18- 08-05  |
| 14               | 316   | 1.4401 X 5 CrNiMo 17 12 2<br>(X4 CrNiMo 17 -12-2)                                 | 316 S 13<br>316 S 17<br>316 S 19<br>316 S 31<br>316 S 33                               |   | Z 3 CND 17 -11-01<br>Z 6 CND 17-11<br>Z 6 CND 17-11-02<br>Z 7 CND 17-11-02<br>Z 7 CND 17-12-02                      |
| 14               | 316L  | 1.4404 X2 CrNiMo 17 13 2<br>(X2 CrNiMo 17-12-2)<br>GX 2 CrNiMoN 18-10             | 316 S 11, 316 S 13<br>316 S 14, 316 S 31;<br>316 S 42, S.537,316<br>C 12, T.75, S. 161 |   | Z 2 CND 17-12<br>Z 2 CND 18-13<br>Z 3 CND 17-11-02<br>Z 3 CND<br>17-12-02 FF<br>Z 3 CND 18-12-03<br>Z 3 CND 19.10 M |
| 14               | 316LN   | 1.4406 X2 CrNiMoN 17 12 2<br>(X2CrNiMoN 18-10)                                    | 316 S 61<br>316 S 63   |   | Z2 CND 17-12 AZ   |
| 14               | CF-8M   | 1.4408 GX 5 CrNiMoN 7 12 2<br>G-X 6 CrNiMo 18 10                                  | 316 C 16 (LT 196)<br>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<br>316 S 14;316 S 31<br>LW 22<br>LWCF 22                             |   | Z 3 CND 17-12-03<br>Z 3 CND 18-14-03  |
| 14               | 316   | 1.4436 X 5 CrNiMo 17 13 3<br>(X4CRNIMO 17-13-3)                                   | 316 S 19; 316 S 31<br>316 S 33<br>LW 23<br>LWCF 23                                     |   | Z 6 CND 18-12-03<br>Z 7 CND 18-12-03  |

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| 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<br>17 12 2  | SUS 316   | STS 316   |   |
| 2348   | X 2 CrNiMo 17 12<br><br>G-X 2 CrNiMo 19 11  | F.3533 - X 2 CrNiMo<br>17 13 2<br><br>F.3537 - X 2 CrNiMo<br>17 13 3              | SUS 316 L   | STS 316 L   |   |
|  | X 2 CrNiMoN 17 12   | F.3542-X 2 CrNiMoN<br>17 12 2   | SUS316LN  | STS316LN  |   |
| 2343   |   | F.8414-AM-X 7<br>CrNiMo 20 10   | SCS 14  | SSC 14  | 07 Ch<br>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<br>17 13 2  | SUS 316 L   | STS 316 L   | O3 Ch 17N14M3   |
| 2343   | X 5 CrNiMo 117 13<br>X 8 cRnImO 17 13   | F.3543-X 5 CrNiMo 17 12 2<br>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<br>(X2CrNiMo 18-15-4)  | 317 S 12   |  | Z 2 CND 19-15-04<br>z 3 cnd 19-15-04   |
| 14               | (s31726)   | 1.4439 X2 CrNiMoN 17 13 5   |  |  | Z 3 CND<br>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<br>1.4460 (X3CrNiMo27-5-2)   |  |  | (Z 3 CND 25-07 Az)<br>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<br>(Z 2 CND 24 -08 Az )<br>(Z 3 CND 25-06-03 Az)                        |
| 14               |  | 1.4500 G-X7NiCrMoCuNb25 20  |  |  | Z3NCDU25.20M   |
| 14               | 17-7PH   | 1.4504  | 316S111  |  |  |
| 14               | 443<br>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<br>321 S 51 (1010;1105)<br>LW 24<br>LWCF 24                                 |  | Z 6 CNT 18-10  |
| 14               | 630  | 1.4542 X5 CrNiCuNb 17 4<br>(X5 CrNiChNb 16-4)   |  |  | Z 7 CNU 15-05<br>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  |







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| 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<br>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<br>18 10  | SUS 321   | STS 321   | 06Ch18N10T<br>08Ch18N10T<br>09Ch18N10T<br>12Ch18N10T                              |
|   |   |   | SCS 24<br>SUS 630   | SSC 24<br>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            |









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| 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   |

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| 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  |
| 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   |   |

| <br>SS | <br>UNI | <br>UNE | <br>JIS | <br>KS | <br>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   |   |
|   |  |  |  |   |   |
|   |  |  |  |   |   |
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| 811-04  |  |  |  |   |   |
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|   |  |  |  |   |   |
| 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 CNKDWNb   |
| 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   |  |  |                |









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|   | XG50NiCr39 19  |  | SCH15  | HRSC 15   |   |
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# 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   |  |  |

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| 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  |   |   |   |
|  |   |   |   |   |   |