

# Классификация обрабатываемых материалов II

## Таблицы соответствия марок твердых сплавов для точения

### Твердый сплав без покрытия

| ISO     | KORLOY | SUMITOMO                                                                | KYOCERA                  | ISCAR | SANDVIK                   | SECO                | KENAMETAL         | TOSHIBA                       | MITSUBISHI                | HITACHI                               | VALENITE                  | WALTER            | TAECUTEC                  | NTK | DIJET |
|---------|--------|-------------------------------------------------------------------------|--------------------------|-------|---------------------------|---------------------|-------------------|-------------------------------|---------------------------|---------------------------------------|---------------------------|-------------------|---------------------------|-----|-------|
| Точение | P      | ST50E<br>ST10<br>ST15<br>ST20<br>MA2<br>ST30<br>ST30A<br>ST30N<br>ST40E | ST10P<br>ST20E           |       | S1P<br>SM30<br>S30T<br>S6 | TTX<br>TTM<br>TTR   | K45<br>KM<br>K420 | TX10S<br>TX20<br>TX30<br>TX40 | ST10T<br>ST120T<br>UT120T | SRN5<br>WS20B<br>EX35<br>EX40<br>EX45 | S1F<br>VC6<br>VC5<br>VC56 |                   | P10<br>P20<br>P30<br>P40  |     |       |
|         | M      | U10<br>U20<br>U40                                                       | U10E<br>U2<br>A30<br>A40 |       | H13A<br>H10F              | AT10<br>AT15<br>TTR | K2885<br>K2S      | TU10<br>TU20<br>TU40          | UT120T                    | WAM10B<br>EX35                        | VC27<br>VC28              |                   | M10<br>M20<br>M40         |     |       |
|         | K      | H02<br>H01<br>H05<br>H10<br>G10                                         | H1<br>G10E               | KW10H | IC4<br>IC20<br>IC28       | H1P<br>H10F         | THM<br>THR        | K68<br>K8735                  | TH03<br>TH10<br>KS20      | HT10T<br>HT120T                       | WH05<br>W10<br>WH20       | VC3<br>VC2<br>VC1 | K10<br>K20<br>K20M<br>K30 |     |       |

### CVD покрытие

| ISO     | KORLOY | SUMITOMO                                 | KYOCERA          | ISCAR                      | SANDVIK          | SECO                       | KENAMETAL                  | TOSHIBA                 | MITSUBISHI              | HITACHI                    | VALENITE         | WALTER                     | TAECUTEC                         | NTK              | DIJET                                    |
|---------|--------|------------------------------------------|------------------|----------------------------|------------------|----------------------------|----------------------------|-------------------------|-------------------------|----------------------------|------------------|----------------------------|----------------------------------|------------------|------------------------------------------|
| Точение | P      | NC3010<br>NC3220★                        | AC810P<br>AC820P | CA5505<br>CA5515<br>CA5525 | IC8150<br>IC8250 | GC4205<br>GC4215<br>GC4225 | TP0500<br>TP1500<br>TP2500 | KCP05<br>KCP10<br>KCP25 | T9105<br>T9115<br>T9125 | UE6105<br>UE6110<br>UE6020 | HG8010<br>HG8025 | VP5515<br>VP5525           | WPP01<br>WPP05<br>WPP10<br>WPP20 | TT8115<br>TT8125 | CP5<br>JC110V<br>JC215V                  |
|         | M      | NC3120<br>NC3030<br>NC5330★<br>NC500H    | AC830P           | CA5535                     | IC8350           | GC4235                     | TP3500                     | KU30<br>KCP40           | T9135                   | UE6035                     | GM8035           | VP5535                     | WPP30                            | TT8135<br>TT7100 | JC325V<br>JC450                          |
|         | K      | NC6205★<br>NC6210★<br>NC315K★<br>NC5330★ | AC410K<br>AC420K | CA4505<br>CA4515<br>CA4120 | IC5005<br>IC5010 | GC3205<br>GC3210<br>GC3215 | TK1001<br>TK2001           | KCK05<br>KCK15<br>KCK20 | T5105<br>T5115<br>T5125 | UC5105<br>UC5115           | HG3505<br>HG3515 | VP1505<br>VP1510<br>VP5515 | WAK10<br>WAK20                   | TT1300<br>TT7310 | CP2<br>CP5<br>JC105V<br>JC110V<br>JC215V |

### PVD покрытие

| ISO     | KORLOY | SUMITOMO                             | KYOCERA                                         | ISCAR                                                          | SANDVIK                                                                   | SECO                                            | KENAMETAL                   | TOSHIBA                                            | MITSUBISHI                           | HITACHI                    | VALENITE                                           | WALTER         | TAECUTEC | NTK                      | DIJET            |
|---------|--------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|----------------------------------------------------|--------------------------------------|----------------------------|----------------------------------------------------|----------------|----------|--------------------------|------------------|
| Точение | P      | PC230<br>PC3535<br>PC5300★<br>PC3545 |                                                 | PR1005<br>PR915<br>PR1115<br>PR930<br>PR1025<br>PR630<br>PR660 | IC507<br>IC808★<br>IC830★<br>IC908<br>IC3028<br>IC330★<br>IC808★<br>IC907 | GC1025                                          | CP200<br>CP250<br>CP500     | AH710<br>GH730<br>AH330<br>AH740<br>AH120<br>GH330 | VP15TF<br>VP20MF                     | IP2000<br>IP3000           | VC907<br>VC927<br>VC905                            | WTA43<br>WTA41 | TT5030   |                          | JC5003<br>JC5015 |
|         | M      | PC8110★<br>PC5300★<br>PC9030         | AC510U<br>EH510Z<br>AC520U<br>EH520Z<br>AC530U★ | PR915<br>PR930<br>PR1125<br>PR630<br>PR660                     | IC808★<br>IC907<br>IC3028<br>IC830★<br>IC330★                             | GC1005<br>GC1105★<br>GC1020<br>GC1025<br>GC4125 | CP200<br>CP250<br>CP500     | AH330<br>GH330<br>AH120<br>GH730<br>AH140          | VP05RT<br>VP10RT<br>VP15TF<br>VP20MF | IP50S★<br>IP100S★          | VC929<br>VC927<br>VC902<br>VC901<br>VC905          |                | TT5030   | ZM3<br>QM3<br>VM1<br>TAS | JC5003<br>JC5015 |
|         | K      | PC5300★                              | EH510Z<br>EH520Z                                |                                                                | IC5100★<br>IC810<br>IC220<br>IC908<br>IC228                               | CP200<br>CP250<br>CP500                         |                             | AH110<br>GH110<br>AH120                            |                                      | CY110H                     | VC929<br>VC903<br>VC927<br>VC902<br>VC901<br>VC907 |                | TT5030   |                          |                  |
|         | S      | PC8110★<br>PC5300★                   | AC510U<br>AC520U                                | PR915<br>PC660                                                 | IC808★<br>IC907<br>IC3028                                                 | GC1105<br>GC1025                                | TS2000★<br>CP500<br>TS2500★ | KC5010<br>KC5025                                   | AH110<br>AH120                       | VP05RT<br>VP10RT<br>VP15TF |                                                    |                | TT5030   |                          |                  |

### Кермет

| ISO     | KORLOY | SUMITOMO                           | KYOCERA                                | ISCAR                                            | SANDVIK                            | SECO                       | KENAMETAL                       | TOSHIBA                                | MITSUBISHI                                 | HITACHI                                       | VALENITE                                  | WALTER | TAECUTEC         | NTK               | DIJET                                                                   |
|---------|--------|------------------------------------|----------------------------------------|--------------------------------------------------|------------------------------------|----------------------------|---------------------------------|----------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------------------|--------|------------------|-------------------|-------------------------------------------------------------------------|
| Точение | P      | CN1000<br>CC115★<br>CN2000<br>CN20 | T110A<br>T2000Z★<br>T1500A★<br>T3000Z★ | PV30★<br>TN30<br>PV60★<br>TN60<br>TN6020<br>TN90 | IC20N<br>IC520N<br>IC30N<br>IC530N | CT5015<br>CT525<br>GC1525★ | CM<br>C15M<br>TP1020<br>TP1030★ | HT2<br>KT125<br>HT5<br>KT175<br>KT195M | NS520<br>GT530★<br>NC530<br>NC540<br>NC730 | NX2525<br>NX3035<br>UP35N★<br>AP25N★<br>NX335 | CH350<br>CZ25★<br>CH530<br>CH550<br>CH570 | VC83   | WTA43★<br>WTA41★ | PV3010★<br>CT3000 | T3N<br>T15<br>N20<br>C30<br>N40<br>LN10<br>CX50<br>CX75<br>CX90<br>CX99 |
|         | M      |                                    | T1500A★                                |                                                  |                                    |                            |                                 |                                        | NX2525                                     |                                               |                                           |        |                  |                   | LN10<br>CX75<br>CX99                                                    |
|         | K      | CN1000                             | T110A<br>T1500A★                       |                                                  |                                    |                            |                                 |                                        | NX2525                                     |                                               |                                           |        | CT3000           | T15               | LN10<br>CX75                                                            |

★ : Кермет с покрытием PVD    ★ : Новые сплавы

