

冷間金型用鋼のブランド対照表 / Brand Name of Cold Work Die Steels

| 分類 Classification | JIS他 JIS and other | 会社名 / Company | | | | | | | | | | | | | 使用硬さ Hardness (HRC) | | |
|---|--|---|---------------------|--|---|----------------------------------|--|-------------------------------------|--|------------------------|--------------------------|---------------------|--|--|----------------------------------|--------------------------|-------|
| | | 日立金属 HITACHI METALS | 愛知製鋼 AICHI STEEL | 関東特殊製鋼 KANTO SPECIAL STEEL WORKS | 神戸製鋼所 KOBEL STEEL | 山陽特殊製鋼 SANYO SPECIAL STEEL | 大同特殊鋼 DAIDO STEEL | NKK | 日本高周波鋼業 NIHON KOSHUHA STEEL | 不二越 NACHI-FUJIKOSHI | 三菱製鋼 MITSUBISHI STEEL | 理研製鋼 RIKEN SEIKO | ボラーズテール BOHLER EDELSTAHL | ウッデホルム UDDEHOLM | | ティッセン日本 THYSSEN STAHL | |
| 炭素工具鋼 Carbon Tool Steels | SK3 | YC3 | SK3 | | | SK3 | YK3 | SK3 | K3 | | SK3 | | K990 | UHB20 | THYRO-DUR 1615 | 58~61 | |
| | SKS93 | YCS3 | SK301 | | | SK3 | YK30 | NKG93 | K3M | SK3M | SKS93 | | | | | 55~60 | |
| 合金工具鋼 Alloy Tool Steels | SKS3 | SGT | SKS3 | | | SKS3 | GOA | NKE3 | KS3 | SKS3 | SKS3 | | K460 | ARNE | THYRO-DUR 2419 | 55~62 | |
| | SKS31 | | SKS31 | | | | GO31 | | KS31 | SKS31 | | | K465 | | THYRO-2510 | 55~62 | |
| | SKD1 | CRD | SKD1 | RFB | | QC1 | DC1 | | KD1 | CDS1 | R32 | | K100 | SVERKER3 | THYRO-DUR-2080 THYRO-DUR-2136 | 55~62 | |
| | SKD11 | SLD | SKD11 | RFE | | QC11 | DC11 | | KD11 | CDS11 | R31 | RD11 | K105 | SVERKER21 | | 55~62 | |
| | SKD12 | SCD | SKD12 | | | QC12 | DC12 | | KD12 | CDS12 | | | K305 | RIGOR | THYRO-DUR 2363 | 55~62 | |
| | AISI D2 | SLD2 | | | | QCD2 | DC3 | | KD11V | | | | K110 | | THYRO-DUR-2379 | 55~62 | |
| | プリハードン Pre-hardened Steels | 40HRC | HPM1 | | | KTSM40EF | NAK55 | KAP | | | | | | | | | 40 |
| | | | HPM2T | | | | GO40F | | | | | | | IMPAX | | | 40 |
| | | 33HRC | HPM2 | | | KTSM3M | PX5 | KPM25 | | | | | | HOLDAX | THYRO-PLAST 2311.2312.2738 | 33 | |
| | | 50HRC | | | | | CX1 | | | | | | | | | | |
| | 火炎焼入鋼 Flame Hardening Steels | HMD5 HMD1 | SX105V SX4 | | | QF3 | GO5 | FH5 | | | | | | | | | 55~62 |
| | 高温焼戻し用 for High Temperature tempering | SLD8 | AUD15 | | | QCM8 | DC53 DCX | NKD101 | KD21 | MCR12 | | | | | | | 62~64 |
| | 低温高焼入鋼 Low Temperature Quenching Steels | ACD37 | AKS3 | | | | GO4 | | | | | | | | | | 58~62 |
| | 耐衝撃用鋼 Steels for Impact Resistance | YSM | | | | QF1 | GS5 | | SRS6 | | | | K630 | COMPAX | THYRO-DUR 2550 | 55~60 | |
| | その他 Other | ARK | | | | | | | | | | | | | | | 55~62 |
| ACD6 ACD8 ACD9 SLD10 | | AUD11 SX5 SX44 TCD | | KAD181 (粉末) | QCM10 | | | KDQ KDQ1 KDQ2 KD22 KD23 | ICS22 | | | | PREGA VIKING FERMO VANADIS4 (粉末) | THYRO-DUR2210 THYRO-DUR2510 THYRO-DUR2812 THYRO-DUR2833 | — | | |
| 高速度 工具鋼 High Speed Tool Steels | SKH51 | YXM1 | | | KM1 | QH51 | MH51 | | H51 | SKH9 | | RHM1 | S600 | KM2 | THYRAPID3313 | 55~65 | |
| | SKH55 | YXM4 | | | KMC3 | | MH55 | | HM35 | HM35 | | RHM5 | S705 | KM35 | THYRAPID3243 | 57~66 | |
| | SKH57 | XVC5 | | SKH57 | | | MH57 | | MV10 | HS93R | | RHM7 | S700 | WKE4 | THYRAPID3207 | 55~68 | |
| | SKH57(改) | | | | KHV4 | | MH8 | | | HS98M | | | | | | 57~68 | |
| | マトリックス系 Matrix type of High Speed Tool Steels | YXR3 YXR33 YXR4 YXR7 | | | | QHS | MH85 MH88 | | KDMV KDW2 HM9TL | MCR1 SKH9D | | | | | | 55~64 | |
| | その他 Other | | | | | | MH7V1 MH64 MH69 | | | HSU2C | | | | | | — | |
| | 粉末高速度 工具鋼 Powder Metal High Speed Tool Steels | HAP5R HAP10 HAP40 HAP50 HAP72 | | KT1 KT2 KT3 | KHA32 KHA30 KHA50 KHA60 KHA33N KHA77 KHA5NH | SPM23 SPM30 SPM60 | DEX20 DEX40 DEX60 DEX70 DEX80 DEX81 DEX-M1 DEX-M3 | | FAX31 FAX18 FAX38 FAX40 FAX55 FAX90 | | | | S390PM S690PM | ASP23 ASP30 ASP60 | | 58~70 | |

熱間鍛造金型用鋼のブランド対照表 / Brand Name of Die Steels for Casting

| 分類 Classification | JIS他 JIS and other | 会社名 / Company | | | | | | | | | | | | 使用硬さ Hardness (HRC) | | |
|--------------------------------------|--|--|----------------------------------|---|---------------------|----------------------------------|--|-------|--|------------------------|---|---------------------|--------------------------------|---------------------------|------------------------------------|--------------------------|
| | | 日立金属 HITACHI METALS | 愛知製鋼 AICHI STEEL | 関東特殊製鋼 KANATO SPECIAL STEEL WORKS | 神戸製鋼所 KOBE STEEL | 山陽特殊製鋼 SANYO SPECIAL STEEL | 大同特殊鋼 DAIDO STEEL | NKK | 日本高速鋼工業 NIPPON KOSHUHA STEEL | 不二越 NACHI-FUJIKOSHI | 三菱製鋼 MITSUBISHI STEEL | 理研製鋼 RIKEN SEIKO | ボラーズチール BOHLER EDELSTAHL | | ウッデホルム UDDEHOLM | ティッセン日本 THYSSEN STAHL |
| 金型 工具鋼 Die Tool Steels | SKD4 | YDC | SKD4 | | | QD4 | DH4 | | KD4 | HIDS4 | | | W105 | | THYRO-THERM2567 | 40~50 |
| | SKD5 | HDC | SKD5 | DK50 | | | DH5 | | KD5 | HDS5 | | | W100 | | THYRO-THERM2581 | 45~50 |
| | SKD6 | | | DK60 | KTD1 | | DH6 | | KD6 | | HD21A | | W300 | | THYRO-THERM2343EFS | 40~52 |
| | SKD61 | DAC | SKD61 | DK61 | KTD2 | QD61 QDA61 | DHA DHA1 | NKD61 | KDA | HDS61 | HD21AX | RD61 | W302 | DIEVAR ORVAR | THYRO-THERM2344EFS | 40~52 |
| | SKD62 | DBC | SKD62 | DK62 | KTD3 | QD62 | DH62 | | KDB | HDS62 | HD21B | | | | THYRO-THERM2106 | 40~52 |
| | SKD7 | YEM | AUD7 | DK70 | | QD10 | DH72 | | KDH1 | HDS7 | | | W320 | | THYRO-THERM2365 | 40~50 |
| | SKD8 | MDC | SKD8 | DK80 | | | DH41 | | KDF | HD58 | HD27 | | | | | 40~50 |
| | SKT4 | DM | SKT4A | DK2 | KTH3 | QT41 | GFA GF78 | | KTV | | HD13 | | | W500 | THYRO-THERM2713 THYRO-THERM2714 | 38~45 |
| | その他 Other | YHD3 YHD28 YHD50 DAC3 DAC40 DAC45 MDC-K YEM-K | AUD60 AUD61 AUD71 AUD91 | DK4 DK30 DK63 DK90 DK91 DK100 DK101 | KTH2 KTH4 | QDT QDR1 QDH | DH2F DHA2 DH21 DH31-S DH32 DH42 DH71 DH73 DH76 | | KTV2 KDH2 TD3 KDA1 KDA2 KDA3 KDW KDW1 KDHM KDF2 | HDN1 MCR7 | HD14 HD17 HD18 HD20B HD20C HD22B HD28 | | W335 W303 W321 | QRO90 HOTVAR | THYRO-THERM2367 THYRO-THERM2885 | |
| 高速度 工具鋼 High Speed Tool Steels | SKH51 | YXM1 | | | KM1 | QH51 | MH51 | | H51 | SKH9 | | | RHM1 | S600 | THY-RAPID3343 | 55~63 |
| | SKH55 | YXM4 | | | KMC3 | | MH55 | | HM35 | HM35 | | | RHM5 | S705 | THY-RAPID3243 | 57~65 |
| | マトリックス系 Matrix type of High Speed Tool Steels | YXR3 YXR33 | | | | QHS | MH85 | | KDW2 HM9TL | MCR1 MDS1 | | | | | | 57~62 53~58 |

ダイキャスト金型用鋼のブランド対照表 / Brand Name of Die Steels for Die Casting

| 分類 Classification | JIS他 JIS and other | 会社名 / Company | | | | | | | | | | | | 使用硬さ Hardness (HRC) | |
|--------------------------------|--|---------------------------|---------------------|---|---------------------|----------------------------------|----------------------|-------|------------------------------------|------------------------|---------------------|--------------------------------|--------------------|---------------------------|--------------------------|
| | | 日立金属 HITACHI METALS | 愛知製鋼 AICHI STEEL | 関東特殊製鋼 KANATO SPECIAL STEEL WORKS | 神戸製鋼所 KOBE STEEL | 山陽特殊製鋼 SANYO SPECIAL STEEL | 大同特殊鋼 DAIDO STEEL | NKK | 日本高速鋼工業 NIPPON KOSHUHA STEEL | 不二越 NACHI-FUJIKOSHI | 理研製鋼 RIKEN SEIKO | ボラーズチール BOHLER EDELSTAHL | ウッデホルム UDDEHOLM | | ティッセン日本 THYSSEN STAHL |
| 一般用 for General | SKD61 | DAC | SKD61 | DK61 | KTD2 | QD61 QDA61 | DHA DHA1 | NKD61 | MFA | HDS61 | RD61 | W302 | ORVAR | THYRO-THERM2344EFS | 40~50 |
| | SKD6 | | | DK60 | KTD1 | | DH6 | | KD6 | | | W300 | | THYRO-THERM2343EFS | 40~50 |
| | 快削プリハードン Free Cutting Pre-hardened Steels | FDAC | | | | QD6F | DH2F | | | | | | | | 38~42 |
| | その他 Other | | | | | | | | MFA-H | | | | | | — |
| 大物用 for Large | SKD61(改) H13(improvement) | DAC4 | AUD61 | DK63 | | QDA61M | DH31-S | | MFA-H | | | | | | 44~48 |
| | その他 Other | | | | | | DHA2 | | MFA-K1 | | | | | | — |
| 精密用 for Precision | SKD7 | YEM | AUD7 | DK70 | | QD10 | DH72 | | KDH1 | HDS7 | | W320 | | THYRO-THERM2365 | 42~50 |
| | SKD7(改) | DAC10 | | | | QDH | | | KDW | | | W321 | | THYRO-THERM2885 | 44~51 |
| | その他 Other | DAC55 | | | | | DH21 DH33 | | MFA-K | HDN1 | | | QR090 | | 48~53 |
| 高融点用 for High Melting Point | SKD8 | MDC | | DK80 | | | DH41 | | KDF | | | | | | 42~50 |
| | SKD8(改) | DAC45 | | | | | DH42 | | | MDS1 | | | | | 47~51 |
| | その他 Other | | | | | | | | | | | | | THYRO-THERM2367, 2885 | — |
| 特殊用 for Special Using | マルエージング鋼 Maraging Steels | YAG | AMAR | | KMS.CF19 | QM300 | MASIC | | | NAG21 | | W720 | | THYRO-THERM2799 | 50~57 |
| | SKH51 | YXM1 | | | KM1 | QH51 | MH51 | | SKH9 | RHM1 | S600 | KM2 | THYRO-RAPID3343 | 55~60 | |
| | マトリックス系 Matrix type of High Speed Tool Steels | YXR33 | | DK101 | | | MH85 | | | | | | | | 52~58 |
| | SCM系 Chromium Molybdenum Steels | HPM2 HPM7 | | | KTKSM3M | | PX5 | | | | | IMPAX HOLDAX | THYRO-PLAST2312 | | 30~33 |
| | その他 Other | E-DAC | | | | | PX7 | | KDF2 | | | | | | 30~40 |

プラスチック金型用鋼のブランド対照表 / Brand Name of Plastic Mold Steels

| 分類 Classification | JIS他 JIS and other | 会社名 / Company | | | | | | | | | | | | | | 使用硬さ Hardness (HRC) | | | | | |
|---|---|---------------------------|---------------------|------------------------|---|---------------------------------|----------------------------------|-----------------------|--------------------------|----------------------|------------------------------|----------------|------|-------------------------------------|--------------------------|---------------------------------|------------------------------------|-----------------------------------|-------------------------------|----|----|
| | | 日立金属 HITACHI METALS | 愛知製鋼 AICHI STEEL | 川崎製鋼 KAWASAKI STEEL | 関東特殊製鋼 KANITO SPECIAL STEEL WORKS | 神戸製鋼所 KOBE STEEL | 山陽特殊製鋼 SANYO SPECIAL STEEL | 新日本製鐵 NIPPON STEEL | 住友金属工業 SUMITOMO METAL | 大同特殊鋼 DAIDO STEEL | 中部鋼板 CHUBU STEEL PLATE | トピー工業 TOPPY | NKK | 日本高周波鋼業 NIPPON KOSHUHA STEEL | 三菱製鋼 MITSUBISHI STEEL | | ボーラー BOHLER EDELSTAHL | ウッデホルム UDDENHOLM | ティッセン日本 THYSSEN STAHL | | |
| アス・ロールド鋼 As Rolled Steels | SC系 Carbon Steels | | | RMS | | S50C S55C | | | | | | S50C | S50C | S45C S55C (厚板) Thick Plate | | | | | THYRO-DUR1730 | 13 | |
| | SCM系 Chromium Molybdenum Steels | | | SCM435 SCM440 | | SCM435 SCM440 | | | | | | SCM440 | | SCM415 SCM435 SCM440 | | | | | THYRO-PLAST2341 | 13 | |
| プリハードン鋼 Pre-hardened Steels | SC系 Carbon Steels | HIT81 | AUK1 | RMS53CN RMS55CN | | KTSM2A KTSM21 U2000 | PC55 | N-PUK30 | SD17 SD30 | PXZ | | | | | KPM1 | | | UHB11 | | 13 | |
| | SCM系 (AISI P20系) Chromium Molybdenum Steels (P20 Type) | HIT82 | AUK11 | RMS-P28 RMS-30PH | | KTSM3A KTSM31 U3000 | | N-PUK40 | SD61 SD80 90・200 | PDS3 | | | | | KPM2 | | | 618 | | 28 | |
| | SCM(改) | HPM2 HPM7 | | | DP40 | KTSM3M | | | SD70 SD100 | | | | | NKE301 | KPM25 | MU-M MU-P | | HOLDAX IMPAX | THYRO-PLAST 2738.2311.2312 | 33 | |
| | SUS系(焼入れ) Stainless steel | HPM38 HPM77 | | | | KTSM60 | QPD1 | | | S-STAR G-STAR | | | | | KSP1 | | M300 M310ESR M314 | STAVAX RAMAXS | THYRO-PLAST2316 | | |
| | SUS系(快削) Stainless steel | PSL | | | | | QS630 | | | NAK101 | | | | | U630 | | | | CORRAX | | 35 |
| | SKD61(改) H13(improvement) | FDAC | | | DK63 | | GD6F | | | DH2F | | | | | KDA | | W302 | ORVAR | | | 40 |
| | AISI P21 P21 Type | HPM1 HPM50 CENA1 | | | | KTSM40EF KTSM40E | | | | NAK55 NAK80 | | | | | KAP KAP2 | MEX41 | | | THYRO-PLAST2711 | | 40 |
| 焼入れ 焼戻し鋼 Quenching and Tempering | SKD11(改) D2(modify) | HPM31 ZDP4 (粉末) | AUD11 | | DP60 | KAD181 (粉末/ Powder Metal) | QCM8 | | | | PD613 | | | | KSP2 | | K110 | RIGOR | THYRO-DUR2379 | 60 | |
| | SUS系 Stainless Steels | ZDP282 | | | DP55 | KAS440 (粉末/ Powder Metal) | | | | | | | | | KSP3 | | M390PM (粉末/ Powder Metal) | ELMAX (粉末/ Powder Metal) | | 60 | |
| 時効処理鋼 Age Hardening | SUS系 Stainless Steels | HPM38 HPM77 | | | DP50 | KTSM60 | QPD1 QPD5 | | | S-STAR | | | | | KSP1 | | M310ESR | STAVAX | THYRO-PLAST2083 | 52 | |
| | マルエージング鋼 Maraging Steels | YAG | | HT210 | | KMS-CF19 | QM300 | | SMA200 | MASIC | | | | | KMS18, 20 | DMG, DMGA シリーズ Seriese | W720 | | THYRO-DUR2709 | 53 | |
| | 非磁性鋼 Non-magnetic steels | HPM75 | | | | KTSM-UM1 | | | | | | | | | | | | | | 43 | |