

COLD WORK TOOL STEELS

This group includes tool steels used to fabricate tooling where the conditions maintain operating temperatures below 200°C. In this group we can find, for example, the grade 2080 (X205Cr12KU) steel with wear resistance and fairly good dimensional stability during heat treatment, the main applications of this grade are : rolls for cold strip mills and wire squeezer mills, circular knives and sheath blades, dies for small metal parts, punches and drawing dies, dies for sintering, forming tool rollers, shear blades and molds for plastic materials. The grade 2379 (X155CrVMo121KU), steel characterized by high wear resistance, excellent hardenability and dimensional stability during the heat treatment. If treated at high temperature, the phenomena of secondary hardness occurs at subsequent tempering. This characteristic makes this steel suitable for nitriding and/or P.V.D. type surface hardening treatments. The main applications are : shear blades, blanking punches, die chasers, rolls for cold mills, threading rolls and chasers.