

High strength steel is produced by a first rolling of a steel composition, reheated above  $1100^{\circ}\text{C}$ , above the austenite recrystallization, a second rolling below the austenite recrystallization temperature, water cooling from above  $A_{r3}$  to less than  $400^{\circ}\text{C}$  and followed by tempering below the  $A_{c1}$  transformation point.