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DESCRIPTORS: *Austenite, *Steel, *Martensite,
Fracture (Mechanics), Chromium alloys, Nickel alloys,
Temperature, Plastic flow.

Austenite steels containing 0.4 to 0.5% C and 18% Mn
possess cold brittleness. The cold brittleness can be
greatly reduced or completely eliminated by additional
alloying with Cr or Ni. The cause of the cold brittle-
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