

Basic temper designations

Designation	Explanation
F	As-fabricated
O	Annealed, recrystallized (wrought products only)
H	Strain hardened (wrought products only)
H1	Strain hardened only
H2	Strain hardened and partially annealed
H3	Strain hardened and stabilized
W	Solution heat treated; unstable temper
T	Heat treated to produce stable tempers other than F, O, or H
T2	Annealed (cast products only)
T3	Solution heat treated and cold worked
T4	Solution heat treated
T5	Artificially aged only
T6	Solution heat treated and artificially aged
T7	Solution heat treated and stabilized
T8	Solution heat treated, cold worked, and artificially aged
T9	Solution heat treated, artificially aged, and cold worked
T10	Artificially aged and cold worked

Note: For a more complete explanation of the designations outlined here, see Volume 2 of this *Metals Handbook* series.

Source: *ASM Handbook, Vol. 4, Heat Treating*, ASM International, 1991, p 899