Temper Designation

Numerals 1-10 following the T indicate specific sequences of basic treatments, as follows:

T1	**Cooled from an elevated temperature shaping process and naturally aged to a substantially stable condition.** Applies to products that are not cold worked after cooling from an elevated temperature shaping process, or in which the effect of cold work in flattening or straightening may not be recognized in mechanical property limits.
T2	**Cooled from an elevated temperature shaping process, cold worked, and naturally aged to a substantially stable condition.** Applies to products that are cold worked to improve strength after cooling from an elevated temperature shaping process, or in which the effect of cold work in flattening or straightening is recognized in mechanical property limits.
T3	**Solution heat-treated cold worked, and naturally aged to a substantially stable condition.** Applies to products that are cold worked to improve strength after solution heat-treatment, or in which the effect of cold work in flattening or straightening is recognized in mechanical property limits.
T4	**Solution heat-treated and naturally aged to a substantially stable condition.** Applies to products that are not cold worked after solution heat-treatment, or in which the effect of cold work in flattening or straightening may not be recognized in mechanical property limits.
T5	**Cooled from an elevated temperature shaping process and then artificially aged.** Applies to products that are not cold worked after cooling from an elevated temperature shaping process, or in which the effect of cold work in flattening or straight ening may not be recognized in mechanical property limits.
T6	**Solution heat-treated and then artifi cially aged.** Applies to products that are not cold worked after solution heat-treat ment, or in which the effect of cold work in flattening or straightening may not be recognized in mechanical property limits.
T7	**Solution heat-treated and overaged/stabilized.** Applies to wrought products that are artificially aged after solution heat-treatment to carry them beyond a point of maximum strength to provide control of some significant characteristic. Ap plies to cast products that are artificially aged after solution heat-treatment to provide dimensional and strength stability.
T8	**Solution heat-treated, cold worked, and then artificially aged.** Applies to products that are cold worked to improve strength, or in which the effect of cold work in flattening or straightening is recognized in mechanical property limits.
T9	**Solution heat-treated, artificially aged, and then cold worked.** Applies to products that are cold worked to improve strength.
T10	**Cooled from an elevated temperature shaping process, and then artifi cially aged.** Applies to products that are cold worked to improve strength, or in which the effect of cold work in flattening or straightening is recognized in me chanical property limits.