

HAYNES[®] Waspaloy alloy

Heat Treatment

Wrought HAYNES[®] Waspaloy alloy is furnished in the solution annealed condition unless otherwise specified. After component fabrication, the alloy would normally again be solution annealed at 1950 to 2000°F (1066 to 1093°C) for a time commensurate with section thickness and rapidly cooled or water-quenched for optimal properties. Following solution annealing, the alloy is given a three-step age-hardening treatment to optimize the microstructure and induce age-hardening. The first step is 1825°F (996°C) for 2 hours followed by air cooling. The second step is 1550°F (843°C) for 4 hours followed by air cooling. The final step is 1400°F (760°C) for 16 hours followed by air cooling.