

## Physical Properties

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### Density

0.285 lbs/in<sup>3</sup>

**Hot Forming**

Working temperatures of 1652–2102°F (900–1150°C) are recommended for hot working processes. Do not work this alloy below 1742°F (950°C). If the final forming temperature falls below this threshold, a solution anneal of 1976–2156°F (1080–1180°C) is necessary. Rapid quenching is required.

**Cold Forming**

The alloy is quite ductile and forms easily. The addition of molybdenum and nitrogen implies more powerful processing equipment may be necessary when compared with the standard 304/304L grades.

**Welding**

Alloy 317L can be readily welded by most standard processes. A post weld heat treatment is not necessary.

