

# Stainless Steel (316L) - Specifications

## Description

This material has good corrosion resistance. This material is widely used in a variety of consumer, aerospace, and automotive applications.

## Composition\*

Element	Typical Values (wt-%)
Fe	Balance
Cr	17.00 – 19.00
Ni	13.00 – 15.00
Mo	2.25 – 3.00
C	≤ 0.030
Mn	≤ 2.00
Cu	≤ 0.50
P	≤ 0.025
S	≤ 0.010
Si	≤ 0.75
N	≤ 0.10

## Mechanical Properties\*

Ultimate tensile strength	640 ± 50 MPa
Yield strength	530 ± 60 MPa
Elongation at break	40 ± 15 %
Young's modulus	185 GPa
Hardness	85 HRB

\* The properties may vary according to application and operation conditions. This information is for reference only. Specifications are subject to change without notice.

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