

316L

Digital Metal's 316L is an austenitic stainless steel based on the AISI 316L standard. Its composition ensures high corrosion resistance where molybdenum adds to resistance in chloride environments. It offers excellent elongation and ductility, as well as being non-magnetic. It is used in a wide application areas from dental/medical through consumer electronics and aerospace to designer items.

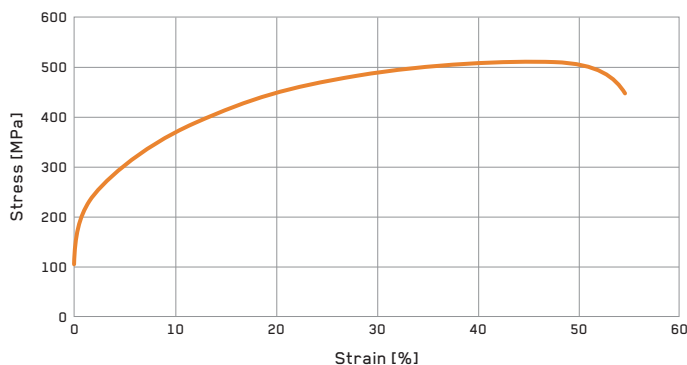
COMPOSITION - TYPICAL VALUES

Element	[Weight %]
Fe	Balance
Cr	17
Ni	11
Mo	2.2
C	0.015

Related standards and denominations: ISO22068 (2014) ; MPIF #35 (2018); 1.4404; AISI 316L; UNS S31603

PHYSICAL PROPERTIES - TYPICAL VALUES

Property	As sintered
Ultimate tensile strength [MPa]	520
Yield strength [MPa]	180
Elongation [%]	50
Hardness [HRB]	55
Relative density [%]	97



FEATURES

- Excellent corrosion resistance
- Good strength at moderately elevated temperatures
- Responds well to surface treatment e.g. super finish
- Molybdenum gives improved corrosion resistance



Predominately austenitic structures with rounded pores and minor fraction of delta-ferrite.