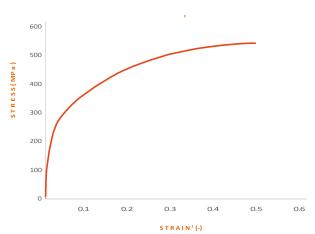


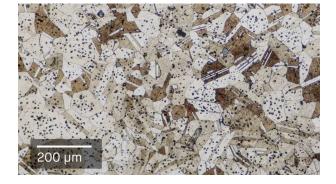
316L stainless steel

Characterized by its corrosion resistance and performance at both high and low temperatures, 316L is a fully austenitic stainless steel. It is used often in applications involving chemical processing, salt water environments, and household or industrial fixtures.

Preliminary composition²

Fe	Balance
Cr	16 - 18%
NĪ	10 - 14%
Мо	2 - 3%
Mn	2.0% (max)
Si	1. 0% (max)
С	0.045% (max)





Mechanical properties		Studio System™	MPIF 35-MIM ³	Wrought ⁴
	per standard	as-sintered	as-sintered (min)	for reference
Yield strength (MPa)	ASTM E8M	165	140	170
Ultimate tensile strength (MPa)	ASTM E8M	494	450	425
Elongation at break	ASTM E8M	51%	40%	40%
Hardness (HRB)	ASTM E18	67 (typ)	67 (typ)	95 (max)
Density (relative)	ASTM B311	95%	95%	100%

Performance			Similar sta	Similar standard designations ⁴	
Boil test ⁵ (corrosion)	ASTM F1089	Pass	UNS	S31603	
Copper sulfate test ⁵ (corrosion)	ASTM F1089	Pass	EN	1.4404	

Desktop Metal Studio Plus System