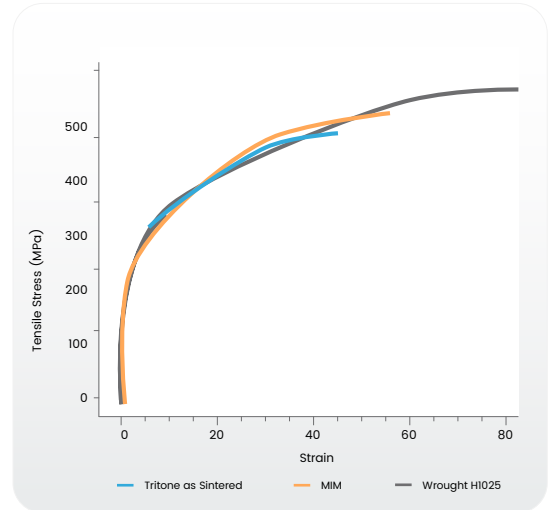


## MATERIAL DATASHEET

# 316L STAINLESS STEEL

### COMPOSITION (ASTM A276-06)

Composition	Amount
Carbon	0.03% max
Silicon	1.0% max
Manganese	2.0 % max
Phosphorous	0.045% max
Sulfur	0.03% max
Chromium	16.0-18.0%
Nickel	10.0-14.0%
Molybdenum	2.0-3.0%
Iron	Bal.



### MECHANICAL PROPERTIES

Properties	Test Standard	Tritone As sintered	MIM MIPF-35 (typical)	Wrought ASTM A276
Ultimate Tensile Strength	ASTM E8	563 MPa	520 MPa	485 MPa
0.2% Yield Strength	ASTM E8	186 MPa	175 MPa	170 MPa
Elongation at Break	ASTM E8	>60%	50%	40%
Hardness	ASTM E18	68 HRB	67 HRB	-
Relative density	ASTM B962	>98%	95%	100%

The mechanical properties are typical values obtained by independent laboratory from parts processed in an industrial sintering furnace.