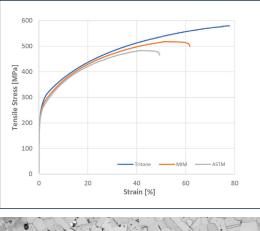
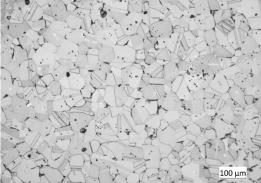


## Material datasheet 316L Stainless Steel

## Composition – According to ASTM A276-06

Composition	Amount		
Carbon	0.03%		
Silicon	1.0%		
Manganese	2.0%		
Phosphorous	0.045%		
Sulfur	0.03%		
Chromium	16.0-18.0%		
Nickel	10.0-14.0%		
Molybdenum	4.08%		
Iron	Bal.		





**Typical Mechanical Properties** 

## **Typical Mechanical Properties**

	Standard	Tritone	MIM MPIF-35 (typical)	Wrought ASTM A276
Ultimate Tensile Strength	ASTM E8	591 MPa	520 MPa	485 MPa
0.2% Yield Strength	ASTM E8	213 MPa	175 MPa	170 MPa
Elongation at Break	ASTM E8	>60%	50%	40%
Hardness	ASTM E18	67 HRB	67 HRB	-
Relative Density	ASTM B962	>99%	95%	100%

All tests were performed in independent professional laboratories to verify 'as-sintered' and composition data. Microstructure images were etched and photographed at an external facility. Subject to change without notice