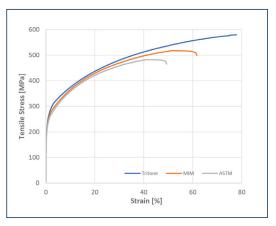
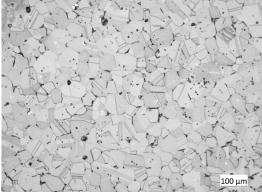


Material datasheet 316L Stainless Steel

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. | | |





As Sintered

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