LUMICISION INC. PRECISION LASER & CNC FABRICATION
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SAMPLE EN 10204 3.1 MATERIAL TEST REPORT (MTR)

DOCUMENT ID: LUM-MTR-316L-SAMPLE | HEAT LOT: HL-884920-316L | ASTM A240 / ASME SA240

1. MATERIAL SPECIFICATION & LOT TRACEABILITY SUMMARY

Alloy & Grade: Austenitic Stainless Steel 304 / 316L Dual-Certified (UNS S31603)
Specification: ASTM A240 / ASME SA240 / EN 10088-2 | Cold Rolled, Annealed, Pickled, 2B / #4 Brushed
Thickness: 0.125 in (3.175 mm / 11 GA) | Sheet Format: 60.0 in x 120.0 in (1524 mm x 3048 mm)
Mill Heat Number: HL-884920-316L | Lumicision Traveler Lot ID: TRV-2026-0419-A | Country of Melt: Canada

2. SPECTROGRAPHIC CHEMICAL ANALYSIS (WT % EN 10204 3.1)

Element	C (max)	Mn (max)	P (max)	S (max)	Si (max)	Cr (16-18)	Ni (10-14)	Mo (2-3)	N (max)
ASTM Limit	0.030	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	0.100
Heat Value	**0.018**	**1.42**	**0.026**	**0.002**	**0.44**	**16.85**	**10.32**	**2.14**	**0.042**

PMI Verification: Confirmed via XRF Spectrometer at Lumicision Receiving Inspection (Pass)

3. MECHANICAL & METALLURGICAL PROPERTIES (ROOM TEMP 20 C)

- Tensile Strength (Rm): 612 MPa (88,760 psi) [ASTM A240 Min Requirement: >= 485 MPa / 70,000 psi]
- Yield Strength 0.2% Proof (Rp0.2): 298 MPa (43,220 psi) [ASTM A240 Min: >= 170 MPa / 25,000 psi]
- Elongation in 50 mm (A50): 54.0% [ASTM A240 Min Requirement: >= 40.0%]
- Hardness: 79 HRB / 148 HBW [ASTM A240 Max Requirement: <= 95 HRB / 217 HBW]
- Intergranular Corrosion Test: ASTM A262 Practice E Passed (Zero Fissures on 180 deg Bend)

4. COMPLIANCE ATTESTATION

We hereby certify that the material described above has been tested and inspected in accordance with EN 10204 Type 3.1, DFARS 252.225-7009, RoHS 3 (EU 2015/863), and REACH SVHC standards.