



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NEMAK ENGINEERING CENTRE
4655 GN Booth Drive
Windsor, Ontario N9C 4G5, Canada
Robert Mackay Phone: 519 972 2005

MECHANICAL

Valid To: November 30, 2020

Certificate Number: 2478.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on fasteners and metals:

<u>Test:</u>	<u>Test Methods:</u>
<u>Physical Testing</u>	
Hardness	
Brinell Hardness (HBW 500 kg / 10-15 s)	ASTM E10
Microhardness (HV 25, 100, 200 gf)	ASTM E384
Tensile (EL, YS, UTS)	ASTM B557M, E8/E8M
<u>Metallographic Evaluation</u>	
Image Analysis (SDAS, % Porosity)	Ford WSE M2A151-A2/A3/A4; NECWI-063
Sample Preparation	ASTM E3
<u>Nondestructive Testing</u>	
X-ray	ASTM E155, E1030, E2422

I. Dimensional Testing¹

Parameter	Range	Technique / Standards
Length – 3D	Up to 1500 mm Up to 4000 mm	Mitutoyo CMM / NECWI-038
	Up to 1500 mm Up to 4000 mm	Zeiss CMM / NECWI-113

¹ Commercial dimensional testing service is available for this laboratory. These tests are not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

NEMAK ENGINEERING CENTRE

Windsor, Ontario, Canada

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 23rd day of January 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2478.01
Valid to November 30, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.