



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

VELTEC LABORATORIES
12255 Universal
Taylor, MI 48180
Billy Martin Phone: 734 946 0440

MECHANICAL

Valid To: December 31, 2019

Certificate Number: 0248.01

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

Test	Test Methods
Tensile Testing (Flat Metal, Tubular Product and Full Cross Section Round), Tensile, Yield, Elongation, Reduction of Area, r and n Values	ASTM E8/E8M, ASTM A370 (Sections 6-14), JIS Z2241, ISO 6892-1
Plastic Strain Ratio (r-value)	ASTM E517, JIS Z2254, ISO 10113
Work Hardening Exponent (n-value)	ASTM E646, JIS Z2253, ISO 10275
Bake Hardening Index	ASTM A1008
Rockwell Hardness (HRBW, HRC, HR15TW, HR30TW)	ASTM E18, ASTM E140
Coating Weight Aluminum on Steel Zinc on Steel	ASTM A428/A428M ASTM A90/A90M, ASTM A917 (Section 8)
Double Olsen Coating Adhesion	Chrysler LP-461H-120
Olsen Cup	ASTM E643
Bend Test (Bend and Flatten)	ASTM E290, ASTM A917 (Section 9)
Surface Roughness using a Profilometer	SAE J911, ASME B46.1

Test	Test Methods
<u>CHEMICAL</u>	
Optical Emission Spectroscopy (OES) Carbon and Low Alloy Steels (Al, B, C, Ca, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, Ti, V)	ASTM E415
Stainless Steel (C, Cu, Cr, Mn, Mo, Ni, P, S, Si)	ASTM E1086
Aluminum Alloys (B, Ca, Cr, Cu, Ga, Mg, Mn, Ni, P, Pb, Si, Ti, V, Zn)	ASTM E1251
<u>METALLOGRAPHIC ANALYSIS</u>	
Grain Size (Comparison)	ASTM E112
Inclusion Content	ASTM E45 (Method A), SAE J422
Sample Preparation	ASTM E3
Micro Etching	ASTM E407
Macro Etching	ASTM E381
Light Photomicrography	ASTM E883



Accredited Laboratory

A2LA has accredited

VELTEC LABORATORIES

Taylor, MI

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 29th day of December 2017

A handwritten signature in black ink, appearing to read "L. S. ...", positioned above a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 0248.01
Valid to December 31, 2019

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