



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

THYSSENKRUPP STEEL DISTRIBUTION LLC
 ThyssenKrupp Laboratory Services (TLS)
 Three Thyssen Park
 Detroit, MI 48210
 Tom Zucchet Phone: 313 899 6259

MECHANICAL

Valid To: May 31, 2019

Certificate Number: 0547.01

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

<u>Test</u>	<u>Test Method(s)</u>
Bake Hardenability	GMW 3032 (Sect. 3.1.2.1); Chrysler MS-264 (Sect. 2.0); Ford WSS-M1A341 (Sect. 3.3, 4.8)
Bend	ASTM E290 (Sect. 3.1.3, 3.1.4); ASTM A917 (Sect. 9); ASTM A653/A653M (Sect. 8.3); ASTM B571 (Sect. 3); Mercedes MBN 11 250 Heated Bend Test
Coating Weight	ASTM A90/A90M
Double Olsen Coating Adhesion	Chrysler LP-461H-120
Flat Metal Specimen Preparation and Tensile Testing	ASTM A370, E8/E8M; EN 10002-1 (Withdrawn 2007) ¹ ; ISO-6892-1; JIS Z2241, Z2201 (Withdrawn 1998) ¹
Metallographic Examination Preparation of Specimens (Polishing) Etching, Micro/Macrostructure Grain Size Microstructure Evaluation/Banding Inclusion Content	ASTM E3; ASTM E340, E407; ASTM E112 (Comparison), E930; ASTM E1268; ASM Metals HBK Vol. 9; ASTM E45 (Method A)

<u>Test</u>	<u>Test Method(s)</u>
Optical Emission Spectroscopy (OES) Carbon/Low Alloy Steel: Al, B, C, Ca, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, Sn, Ti, V	ASTM E415
Stainless Steel: Al, B, C, Ca, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, Sn, Ti, V	ASTM E1086
Plain Strain Ratio (r-value)	ASTM E517
Rockwell Hardness (B, C, 30T)	ASTM E18
Strain Hardening Exponent (n-value)	ASTM E646
Surface Roughness Using a Profilometer (Taylor-Hobson)	SAE J911

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.





Accredited Laboratory

A2LA has accredited

THYSSENKRUPP STEEL DISTRIBUTION LLC

Detroit, 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 March 2017.

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

President and CEO
For the Accreditation Council
Certificate Number 0547.01
Valid to May 31, 2019

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