SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

BRIEM ENGINEERING
4134 Rider Trail North
Saint Louis, MO 63045
Patrick Lombard Phone: 314 298 3773

MECHANICAL

Valid To: July 31, 2020 Certificate Number: 3036.01

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

Test Description	**Test Method(s)**
Coating Thickness by Microscopical Examination of a Cross Section	ASTM B487; NASM 1312-12
Coating Thickness by SEM	ASTM B748
Tension Testing of Metals	ASTM A370, E8/E8M
Brinell Hardness (3000gf)	ASTM E10
Rockwell Hardness (B, C, 30N, 30T)	ASTM E18, F606/F606M
Average Grain Size (Comparison)	ASTM E112
Microhardness (HK 0.1, 0.5; HV 0.1, 0.5)	ASTM E384
Fastener Tensile (Axial & Wedge)	ASTM F606/F606M
Inclusion Content	ASTM E45 (Method A)
SEM/EDS Analysis (Semi-quantitative)	ASTM E1508; Hitachi S2460N SEM Manual; IXRF EDS Manual
Liquid Penetrant Inspection (Visible & Fluorescent)	ASTM E1417/E1417M (Methods A, D)
Magnetic Particle Inspection (Yoke, Visible & Fluorescent)	ASTM E1444/E1444M
Graphite in Cast Iron	ASTM A247
Failure Analysis	Using the methods listed above in accordance with ASM Handbook Volume 11

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Accredited Laboratory

A2LA has accredited

BRIEM ENGINEERING

Saint Louis, MO

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 April 2017*).

Presented this 4th day of September 2018.

President and CEO
For the Accreditation Council
Certificate Number 3036.01
Valid to July 31, 2020

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