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Registration No. CNAS L3967

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2020-08-04 Expiry Date: 2024-03-22

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Carbon and low-alloy steel	1	C, Si, Mn, P, S, Cr, Ni, Mo, Cu, Al, B, V, Ti	Carbon and low-alloy steel—Determination of multi-element contents—Spark discharge atomic emission spectrometric method (routine method) GB/T 4336-2016		2020-08-04
2	Stainless steel	1	C, Si, Mn, P, S, Cr, Ni, Mo, Cu, Al, B, V, Ti	Stainless steel - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (Routine method) GB/T 11170-2008		2020-08-04
3	Steel and iron materials and its product	1	Tensile testing at room temperature	Metallic materials - Tensile testing - Part 1: Method of test at room temperature ISO 6892-1:2019	Accredited only for Fm≤1000k N; Rm, ReL, Rp0.2, A, Z; Method B	2020-08-04
		2	Bend test	Metallic materials--Bend test ISO 7438:2016	Accredited only for	2020-08-04

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					Roller type; Fm≤200kN	
		3	Rockwell hardness test	Metallic materials--Rockwell hardness test--Part 1: Test method ISO 6508-1:2016	Accredited only for HRC, HRBW	2020-08-04
		4	Vickers hardness test	Metallic materials - Vickers hardness test - Part 1: Test method ISO 6507-1:2018	Accredited only for HV0.1, HV0.2, HV0.3, HV1, HV5, HV10, HV30	2020-08-04
		5	Impact test	Metallic materials-Charpy pendulum impact test-Part 1: Test method ISO 148-1:2016	Accredited only for KV2, KU2 ;-110℃~0℃ and room temperature	2020-08-04
		6	Depth of carburization and hardened cases	Steel-Determination of the thickness of surface-hardened layers ISO 18203:2016	Accredited only for CHD	2020-08-04
		7	Coating thickness	Metallic coatings-Measurement of coating thickness-X-ray Spectrometric methods ISO 3497:2000	Accredited only for Zn/Fe (0-35μm), Ni/Fe (0-20μm),	2020-08-04



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				Non-magnetic coatings on magnetic substrates-Measurement of coating thickness-Magnetic method ISO 2178:2016	NiZn/Fe (0-25µm), Cu/Fe (0-20µm)	2020-08-04
				Metallic and oxide coatings-Measurement of coating thickness-Microscopical method ISO 1463:2003		2020-08-04
				8 Neutral salt spray test		Corrosion tests in artificial atmospheres-Salt spray tests ISO 9227:2017
		9	Surface roughness	Geometrical Product Specifications (GPS) - Surface texture: Profile methode Surface roughness parameters and their values GB/T 1031-2009	Accredited only for Ra/Rz	2020-08-04
		4	Bolts,screws and studs	1	Size	Method of verification for fasteners - Size and geometry - Bolts, screws, studs and nuts JB/T 9151.1-1999
Method of verification for fasteners - Size and geometry - Wood screws JB/T 9151.2-1999						2020-08-04
Method of verification for fasteners - Size and geometry - Tapping screws JB/T 9151.3-1999						2020-08-04
2	Tensile test under wedge loading of finished bolts and screws (excluding studs)			Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread ISO 898-1:2013 9.1		2020-08-04
				Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets ASTM F606/F606M-19 3.5		2020-08-04
3	Tensile test for finished bolts, screws and studs			Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread ISO 898-1:2013 9.2		2020-08-04



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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				Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets ASTM F606/F606M-19 3.4		2020-08-04
		4	Proof load test for finished bolts, screws and studs	Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread ISO 898-1:2013 9.6		2020-08-04
				Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets ASTM F606/F606M-19 3.2.3		2020-08-04
		5	Head Soundness test	Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread ISO 898-1:2013 9.8	Accredited only for less of M14	2020-08-04
		6	Decarburization test	Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread ISO 898-1:2013 9.10	Accredited only for metallographic method P<1.25	2020-08-04
		7	Tensile test for fasteners	Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 1: Bolts, screws and studs with specified grades and property classes ISO 3506-1:2020 9.1	Except for 9.1.3 Reference test procedure for the determination of stress at 0,2 % non-proportiona	2020-08-04



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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					l elongation, Rpf	
		8	Tensile test for bolts and screws with reduced loadability due to head design	Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 1: Bolts, screws and studs with specified grades and property classes ISO 3506-1:2020 9.2		2020-08-04
		9	Tensile test for fasteners with reduced loadability due to shank design	Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 1: Bolts, screws and studs with specified grades and property classes ISO 3506-1:2020 9.3		2020-08-04
		10	Torsional test	Mechanical properties of fasteners – Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm ISO 898-7:1992		2020-08-04
				Heat-treated steel tapping screws–Mechanical properties ISO 2702:2011 6.2.2		2020-08-04
				Mechanical properties of corrosion-resistant stainless steel fasteners - Part 4: Tapping screws ISO 3506-4:2009 6.3		2020-08-04
		11	Test of metallurgical properties	Drilling screws with tapping screw thread -- Mechanical and functional properties ISO 10666:1999 4.1	Except for microstructure	2020-08-04
		12	Test of mechanical properties	Drilling screws with tapping screw thread -- Mechanical and functional properties ISO 10666:1999 4.2		2020-08-04
		13	Proof torque test	Mechanical properties of corrosion-resistant stainless steel fasteners - Part 3: Set screws and similar fasteners not under tensile stress ISO 3506-3:2009 6.1		2020-08-04
		14	Hardness test	Mechanical properties of corrosion-resistant stainless steel fasteners - Part 3: Set screws and similar fasteners not under tensile stress ISO 3506-3:2009 6.2		2020-08-04



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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		15	Surface hardness test	Mechanical properties of corrosion-resistant stainless steel fasteners-Part 4: Tapping screws ISO 3506-4:2009 6.1		2020-08-04
		16	Core hardness test	Mechanical properties of corrosion-resistant stainless steel fasteners-Part 4: Tapping screws ISO 3506-4:2009 6.2		2020-08-04
5	Nuts	1	Size	Method of verification for fasteners-Size and geometry-Bolts, screws, studs and nuts JB/T 9151.1-1999		2020-08-04
		2	Proof load test	Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread ISO 898-2:2012 9.1		2020-08-04
				Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 2: Nuts with specified grades and property classes ISO 3506-2:2020 10.1		2020-08-04
6	Washers	1	Size	Method of verification for fasteners-Size and geometry-Washers JB/T 9151.4-1999		2020-08-04
7	Rivets	1	Size	Method of verification for fasteners-Size and geometry-Rivets JB/T 9151.6-1999		2020-08-04
8	Rings	1	Size	Method of verification for fasteners-Size and geometry-Rings JB/T 9151.7-1999		2020-08-04
9	Pins	1	Size	Method of verification for fasteners-Size and geometry-Pins JB/T 9151.5-1999		2020-08-04
		2	Shear test	Pins and grooved pins-Shear test ISO 8749:1986		2020-08-04



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