

Name: Testing Center of Metal Research Institute, Chinese Academy of Sciences

Address: No.8 Shiji Road Hunnan District, Shenyang, Liaoning, China

Registration No. CNAS L4975

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

Effective Date: 2024-02-22 Expiry Date: 2029-05-25

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
Metal materials and products						
1	Metal materials and products	1	Ultrasonic testing	Steel forgings - Method for ultrasonic testing GB/T 6402-2008		2023-06-20
				Steel castings-Ultrasonic testing-Part 1:Steel castings for general purposes GB/T 7233.1-2023		2024-02-22
				Method for ultrasonic testing of forged and rolled steel bars GB/T 4162-2022		2023-06-20
				General specifications of forged steel work rolls for cold rolling GB/T 13314-2008	Accrideted only for appendix A	2023-06-20
				Cast steel rolls GB/T 1503-2008	Accrideted only for appendix B	2023-06-20
				Ultrasonic testing for steel forgings JB/T 8467-2014		2023-06-20
				Non-destructive testing - Ultrasonic thickness measurement GB/T 11344-2021		2023-06-20



No. CNAS L4975

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				Nondestructive testing of pressure equipment—Part 3 : Ultrasonic testing (XG1-2018) NB/T 47013.3-2015 (XG1-2018)	Special equipment is not tested	2023-06-20
				Ultrasonic inspection of wrought metal HB 20159-2014		2023-06-20
				Ultrasonic inspection of wrought metal GJB 1580A-2019		2023-06-20
				Ultrasonic testing for small diameter metal bars HB/Z 33-2021		2024-02-22
				Immersion ultrasonic inspection of aero-engine disks HB/Z 34-2021		2024-02-22
				Method of ultrasonic inspection for wrought titanium and titanium alloy products GB/T 5193-2020		2023-06-20
				Non-destructive Testing of Welds-Ultrasonic Testing-Techniques,testing Levels,and Assessment GB/T 11345-2013		2023-06-20
				Non-destructive testing of welds-Ultrasonic testing-Characterization of indications in welds GB/T 29711-2013		2023-06-20
				Non-destructive testing of welds-Ultrasonic testing-Acceptance levels GB/T 29712-2013		2023-06-20
				Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections GB/T 5777-2019		2023-06-20
				Method of ultrasonic inspection for titanium and titanium alloy tubes GB/T 12969.1-2007		2023-06-20
		2	Radiographic testing	Melt weld technical conditions for structure and stainless steel QJ 1842A-2011	Accredited only for section 5~7	2023-06-20
				Melt weld technical conditions for titanium and titanium alloy QJ 1666A-2011	Accredited only for	2023-06-20



No. CNAS L4975

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					section 5~7	
				Non-destructive testing — Test methods for radiographic testing of circumferential fusion-welded butt joints in metallic pipes and tubes GB/T 12605-2008		2023-06-20
				Method of X-ray testing for melt butt joints of stainless thin wall plate QJ 1175A-96		2023-06-20
				Method for X-ray radiographic inspection of fusion welded butt joints for aluminum and aluminum alloy GJB 1486A-2021		2023-06-20
				Castings -Radiographic testing GB/T 5677-2018		2023-06-20
				Standard Practice for Radiographic Examination ASTM E1742/E1742M-2018		2023-06-20
				Standard Reference Radiographs of Investment Steel HB 6573-1992		2023-06-20
				Castings for Aerospace Applications ASTM E192-20		2023-06-20
				Reference Radiographs for Titanium Castings ASTM E1320-20		2023-06-20
				Reference Radiographs for Examination of Aluminum Fusion Welds ASTM E1648-20		2023-06-20
				Reference Radiographs for Steel Castings ASTM E446-20		2023-06-20
				Standard Reference Radiographs for Heavy-Walled ASTM E186 - 20		2023-06-20
				Standard Reference Radiographs of aluminium magnesium alloy casting HB 6578-1992		2023-06-20
				Long pole holes grade standard of aluminium alloy casting for X-ray radiographic testing HB 5395-1988		2023-06-20
				Sponge shrinkage grade standard of aluminium alloy casting for X-ray radiographic testing HB 5396-1988		2023-06-20



No. CNAS L4975

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				Dendritic shrinkage grade standard of aluminium alloy casting for X-ray radiographic testing HB 5397-1988		2023-06-20	
				Radiographic testing for aluminum alloy castings-Defect levels GB/T 11346-2018		2023-06-20	
				X-ray radiographic testing HB 20160-2014		2023-06-20	
				Radiography testing GJB 1187A-2019		2023-06-20	
				Nondestructive testing of pressure equipments. Part 2: Radiographic testing (XG1-2018) NB/T 47013.2-2015 (XG1-2018)	Special equipment is not tested	2023-06-20	
				Non-destructive of welds-Radiographic testing-Part 1: X-and gamma-ray techniques with film GB/T 3323.1-2019		2023-06-20	
		3	Penetrate testing		Penetrate testing HB/Z 61-1998		2023-06-20
					Liquid penetrant inspection GJB 2367A-2005		2023-06-20
					Nondestructive testing of pressure equipments. Part 5: Penetrate testing NB/T 47013.5-2015	Special equipment is not tested	2023-06-20
					Non-destructive Testing - Test Method for Penetrant Testing JB/T 9218-2015		2023-06-20
					Standard Practice for Liquid Penetrant Testing ASTM E1417/E1417M-21 <sup>e1</sup>		2023-06-20
		4	Eddy current testing		Nondestructive testing of pressure equipments. Part 5: Eddy current testing NB/T 47013.6-2015	Special equipment is not tested	2023-06-20
					Automated eddy current testing of seamless and welded (except submerged arc-welded) steel tubes for detection of imperfections GB/T 7735-2016		2023-06-20



No. CNAS L4975

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5				Method of eddy current testing for titanium and titanium alloy bars and wires GB/T 23601-2009		2023-06-20		
				Non-destructive testing of welds-Eddy current testing of welds by complex-plane analysis GB/T 26954-2011		2023-06-20		
				Eddy current testing GJB 2908A-2020		2023-06-20		
						Industrial computed tomographic(CT) inspection GJB 5312-2004		2023-06-20
						Standard Practice for Fan Beam Computed Tomographic (CT) Examination ASTM E1570-2019		2023-06-20
						Standard Practice for Computed Tomographic (CT) Examination of Castings ASTM E1814-14(2022)		2023-06-20
						Non-destructive testing-Industrial computed tomography (CT) testing-General requirements GB/T 29070—2012		2023-06-20
						Non-destructive testing—Industrial computed radiography with storage phosphor imaging plates—General principles for testing of metallic Materials using X-rays and gamma rays GB / T 26642-2022		2023-06-20
						Standard practice for X-ray digital radioscopic examination of cylinder weld GB / T 17925-2011		2023-06-20
						Method of X-ray radioscopy for butt-weld GB / T 19293-2003		2023-06-20
						Nondestructive testing of pressure equipments-Part 11:Standard practice for X-ray digital radiography (XG1-2018) NB / T 47013.11-2015 (XG1-2018)	Special equipment is not tested	2023-06-20
						Nondestructive testing of pressure equipments-Part 14:X-ray computed radiographic testing NB / T 47013.14-2016	Special equipment is not tested	2023-06-20
						Non-destructive testing of welds — Radiographic testing —Part 2: X- and gamma-ray techniques with digital detectors ISO		2023-06-20



No. CNAS L4975

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				17636-2:2022		
				Non-destructive testing of steel tubes -- Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections ISO 10893-7:2019		2023-06-20
				Non-destructive of welds-Radiographic testing-Part 2: X-and gamma-ray techniques with digital detectors GB/T 3323.2-2019		2023-06-20
		6	Fatigue	Metallic materials—Fatigue testing—Axial-strain-controlled method GB/T 26077-2021		2023-06-20
				Metallic materials—Fatigue testing—Axial force-controlled method GB/T 3075-2021		2023-06-20
				The test method for axial loading constant-amplitude low-cycle fatigue of metallic materials GB/T 15248-2008		2023-06-20
				Metallic materials—Fatigue testing—Fatigue crack growth method GB/T 6398-2017		2023-06-20
		7	Fracture toughness	Metallic materials—Determination of plane-strain fracture toughness GB/T 4161-2007		2023-06-20
				Metallic materials—Unified method of test for determination of quasistatic fracture toughness GB/T 21143-2014		2023-06-20



No. CNAS L4975