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# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **CRTS GLOBAL LCC**

LAB ADDRESS: ARAMCO CONTRACTORS PARK, AIN NAKHAEL, ABQAIQ, 31992, SAUDI ARABIA  
HEADQUARTERS: AL TUWAIHQI TOWER, BUILDING NUMBER 8145, 14TH FLOOR  
AL KHOBAR, 34225, SAUDI ARABIA

### **Testing Laboratory TL-1364**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 9, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## CRTS GLOBAL LCC

[www.crtsglobal.com](http://www.crtsglobal.com)

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**Accredited to** ISO/IEC 17025:2017

**Effective Date** December 9, 2025

ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
CSA Z245.20 Clause 12.1	Plant-applied external fusion bonded epoxy coating for steel pipe –Cure time of the epoxy powder
CSA Z245.20 Clause 12.10	Plant-applied external fusion bonded epoxy coating for steel pipe –Porosity of the coating
CSA Z245.20 Clause 12.14	Plant-applied external fusion bonded epoxy coating for steel pipe – Adhesion of the coating
CSA Z245.20 Clause 12.2	Plant-applied external fusion bonded epoxy coating for steel pipe –Gel time of the epoxy powder
CSA Z245.20 Clause 12.5	Plant-applied external fusion bonded epoxy coating for steel pipe –Particle size of the epoxy powder
CSA Z245.20 Clause 12.7	Plant-applied external fusion bonded epoxy coating for steel pipe – Thermal characteristics of the epoxy powder and coating
CSA Z245.20 Clause 12.8	Plant-applied external fusion bonded epoxy coating for steel pipe – Cathodic Disbondment of the coating
CSA Z245.20 Clause 12.9	Plant-applied external fusion bonded epoxy coating for steel pipe – Interface Contamination of the coating
CSA Z245.22 Clause 12.11	Plant-applied external fusion bonded epoxy coating for steel pipe – Flexibility of the coating
EN 10290 Para. 7.9	Steel tubes and fittings for onshore and offshore pipelines. External liquid applied polyurethane and polyurethane-modified coatings – Adhesion test – Pull-off method
ISO 11357-2	Plastics — Differential scanning calorimetry (DSC) Part 2: Determination of glass transition temperature and step height
ISO 21809-2 Annex A (A.12)	Petroleum and natural gas industries — External coatings for buried or submerged pipelines used in pipeline transportation systems Part 2: Single layer fusion-bonded epoxy coatings – Porosity of the coating

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ISO 4624	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
NACE SP0394 (Appendix C)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Gel Time Determination
NACE SP0394 (Appendix D)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Glass Transition and Heat of Reaction Determination
NACE SP0394 (Appendix G)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Test for Porosity of the Coating
NACE SP0394 (Appendix H)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Flexibility Test
NACE SP0394 (Appendix J)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Hot-Water Soak
NACE SP0394 (Appendix K)	Application, Performance, and Quality Control of Plant-Applied Single-Layer Fusion-Bonded Epoxy External Pipe Coating – Test for Interface Contamination of the Coating

