



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL

Certificate Number: 4956.02

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

Test Technology	Test Method(s)
Explosive Atmospheres – Part 0: Equipment – General Requirements	IEC 60079-0 Edition 7.0; EN 60079-0:2018 UL 60079-0 Edition 7.0; CAN/CSA C22.2 NO 60079-0:19
Explosive Atmospheres – Part 1: Equipment Protection by Pressurized Enclosures	IEC 60079-1 Edition 7.0; EN 60079-1:2014 UL 60079-1 Edition 7.0; CAN/CSA C 22.2 NO 60079-1:16
Explosive Atmospheres – Part 2: Equipment Protection by Pressurized Enclosure	IEC 60079-2 Edition 6.0; EN 60079-2:2014 UL 60079-2 Edition 6.0; CAN/CSA C22.2 NO 60079-2:16
Explosive Atmospheres – Part 5: Equipment Projection by Powder Filling	IEC 60079-5 Edition 4.0; EN 60079-5:2015; UL 60079-5 Edition 4.0; CAN/CSA C22.2 NO 60079-5:19
Explosive Atmospheres – Part 6: Equipment Protection by Oil Immersion	IEC 60079-6 Edition 4.0; EN 60079-6:2015; UL 60079-6 Edition 4.0; CAN/CSA C22.2 NO 60079-6:17
Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety	IEC 60079-7 Edition 5.0; EN IEC 60079-7: 2018; UL 60079-7 Edition 5.0; CAN/CSA C22.2 NO 60079-7:16
Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety	IEC 60079-11 Edition 6.0; EN 60079-11:2012; UL 60079-11 Edition 6.0; CAN/CSA C22.2 NO 60079-11:14
Explosive Atmospheres – Part 13: Equipment Projection by Pressurized Room	IEC 60079-13 Edition 2.0; EN 60079-13:2017
Explosive Atmospheres – Part 15: Equipment Protection by Type of Protection	IEC 60079-15 Edition 5.0; EN IEC 60079-15:2019; UL 60079-15 Edition 5.0; CAN/CSA C22.2 NO 60079-15:18
Explosive Atmospheres – Part 18: Equipment Protection by Encapsulation	IEC 60079-18 Edition 4.1; EN 60079-16:2017; UL 60079-18 Edition 4.0; CAN/CSA C22.2 NO 60079-18:16

Test Technology	Test Method(s)
Explosion Atmospheres – Part 25: Intrinsically Safe Electrical Systems	IEC 60079-25 Edition 2.0; EN 60079-25:2010; UL 60079-25 Edition 2.0; CAN/CSA C22.2 NO 60079-25:14
Explosive Atmospheres – Part 26: Equipment with Equipment Protection Level (EPL)	IEC 60079-26 Edition 3.0; EN 60079-26:2015 UL 60079-26 Edition 3.0; CAN/CSA C22.2 NO 60079-26:16
Explosive Atmospheres – Part 27: Fieldbus Intrinsically Safe Concept (FISCO)	IEC 60079-27 Edition 2.0
Explosive Atmospheres – Part 28: Protection of Equipment and Transmission Systems Using Optical Radiation	IEC 60079-28 Edition 2.0; EN 60079-28:2015 UL 60079-28 Ed. 2.0; CAN/CSA C22.2 NO 60079-28:16
Explosive Atmospheres – Part 29-1: Gas Detectors – Performance Requirements of Detectors for Flammable Gases	IEC 60079-29-1 Edition 2.0; EN 60079-29-1:2016 UL 60079-29-1 Ed. 2.0; CAN/CSA C22.2 NO 60079-29-1:17
Explosive Atmospheres – Part 29-4: Gas Detectors – Performance Requirements of Open Path Detectors for Flammable Gases	IEC 60079-29-4 Edition 1.0; EN 60079-29-4:2010; UL 60079-29-4 Ed. 1.0; CAN/CSA C22.2 NO 60079-29-4:16
Explosive Atmospheres – Part 30-1: Electrical Resistance Trace Heater – General and Testing Requirements	IEC/IEEE 60079-30-1 Edition 1.0; EN 60079-30-1:2017; UL 60079-30-1 Ed. 1.0 CAN/CSA C22.2 NO 60079-30-1:17
Explosive Atmospheres – Part 31: Gas Detectors – Performance Requirements of Detectors for Flammable Gases	IEC 60079-31 Edition 2.0; EN 60079-31:2014 UL 60079-31 Ed. 2.0 CAN/CSA C22.2 NO 60079-31:15
Explosive Atmospheres – Part 32-1: Electrostatic Hazards, Guidance	IEC TS 60079-32-1 Edition 1.1; PD CLC/TR 60079-32-1:2018
Explosive Atmospheres – Part 32-2: Electrostatic Hazards – Tests	IEC 60079-32-2 Edition 1.0; EN 60079-32-2:2015
Explosive Atmospheres – Part 33: Equipment Protection by Special Protections	IEC 60079-33 Edition 1.0; PD CLC/TR 60079-33:2015
Explosive Atmospheres – Part 35-1: Caplights for use in Mines Susceptible to Firedamp – General Requirements – Construction and Testing in Relation to the Risk of Explosion	IEC 60079-35-1 Edition 1.0; EN 60079-35-1:2011
Explosive Atmospheres – Part 35-2: Caplights for use in Mines Susceptible to Firedamp – Performance and Other Safety-Related Matters	IEC 60079-35-2 Edition 1.0; EN 60079-35-2:2012
Explosive Atmospheres – Part 36: Non-Electrical Equipment for Explosive Atmospheres – Basic Method and Requirements	ISO 80079-36 Edition 1.0; EN ISO 80079-36:2016

Test Technology	Test Method(s)
Explosive Atmospheres – Part 37: Non-Electrical Equipment for Explosive Atmospheres – Non-Electrical Type Protection Constructional Safety “c” Control of Ignition Source “b”, Liquid Immersion “k”	ISO 80079-37 Edition 1.0; EN ISO 80079-37:2017
Explosive Atmospheres – Part 39: Intrinsically Safe Systems with Electronically Controlled Spark Duration Limitation	IEC TS 60079-39 Edition 1.0; PD CLC IEC/TS 60079-39:2019
Explosive Atmospheres – Part 40: Requirements for Process Sealing Between Flammable Process Fluids and Electrical Systems	IEC TS 60079-40 Edition 1.0; PD IEC/TS 60079-40:2015
Explosive Atmospheres – Part 46: Equipment Assemblies	IEC TS 60079-46 Edition 1.0; PD IEC/TS 60079-46:2015
Flame Arrestors – Performance Requirements., Test Methods and Limits for use	ISO 16852 Edition 2.0; EN 16852:2017
Degrees of protection provided by enclosure (IP Code)	IEC 60529:2013 Edition 2.2; EN 60529:2013
Electrical apparatus for explosive gas atmospheres - General requirements	KS C IEC 60079-0:2004
Electrical apparatus for explosive gas atmospheres - Type of protection "d"	KS C IEC 60079-1:2014
Electrical apparatus for explosive gas atmospheres - Type of protection "p"	KS C IEC 60079-2:2014
Electrical apparatus for explosive gas atmospheres - Powder filling "q"	KS C IEC 60079-5:2015
Electrical apparatus for explosive gas atmospheres - Oil-immersion "o"	KS C IEC 60079-6:2015
Electrical apparatus for explosive gas atmospheres - Increased safety "e"	KS C IEC 60079-7:2006
Electrical apparatus for explosive gas atmospheres - Intrinsically-safe circuits "i"	KS C IEC 60079-11:1999
Electrical apparatus for explosive gas atmosphere-Type of protection "n"	KS C IEC 60079-15:2005
Electrical apparatus for explosive gas atmosphere-Encapsulation "m"	KS C IEC 60079-18:2004

Test Technology	Test Method(s)
Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	KS C IEC 60079-28:2006
Explosive atmospheres - Equipment dust ignition protection by enclosure 't'	KS C IEC 60079-31:2008
Degrees of protection provided by enclosures(IP Code)	KS C IEC 60529:2013
Notice of safety for protection device Safety certification	Notice of government 2019-15
Explosive atmospheres – Electrical installations design, selection and erection	KS C IEC 60079-14 Ed. 3.0
Explosive atmospheres – Electrical installations inspection and maintenance	KS C IEC 60079-17 Ed. 4.0
Explosive atmospheres – Part 14: Electrical installations design, selection and erection	IEC 60079-14 Ed. 5.0; EN 60079-14:2014
Explosive atmospheres – Part 17: Electrical installations inspection and maintenance	IEC 60079-17 Ed. 5.0; EN 60079-17:2014
Enclosures for Electrical Equipment (1,000 V Maximum)	NEMA 250-2014
Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements	IEC 62784:2017 Ed. 1.0; EN 62874:2018
Permeable sintered metal materials -- Determination of bubble test pore size	ISO 4003:1997 EN 4003:2006
Explosive atmospheres. Explosion prevention and protection. Basic concepts and methodology	EN 1127-1:2011
Explosive atmospheres. Explosion prevention and protection. Basic concepts and methodology for mining	EN 1127-2:2014