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CERTIFICATE OF ACCREDITATION

This is to attest that

ABASTIBLE S.A.

CAMINO A MELIPILLA 11700, MAIPU, REGIÓN METROPOLITANA
SANTIAGO, 9260063, CHILE

Testing Laboratory TL-1071

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 October 25, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ABASTIBLE S.A.

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Accredited to ISO/IEC 17025:2017

Effective Date October 25, 2024

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Liquefied Petroleum Gas Analysis	Liquid petroleum gas (LPG)	Ethane Propane Propylene Iso-Butane N-Butane Acetylene T-2-Butene 1-Butene Iso-Butene C-2-Butene Neo Pentane Iso Pentane N Pentane 1,3 Butadiene 3 Metil 1 Buteno Trans 2 Penteno 2 Methyl 2 Butene 1 Pentene 2 Metil 1 Butene Cis 2 pentene	NCh 1941: "Liquefied petroleum gases (LPG) - Determination of composition by gas chromatography" / ASTM D2163: "Standard Test Method for Determination of Hydrocarbons in Liquefied Petroleum (LP) Gases and Propane/Propene Mixtures by Gas Chromatography"
		Liquid petroleum gas (LPG)	NCh 74: "Liquefied petroleum gases (LPG) - Determination of volatility" / ASTM D1837 "Standard Test Method for Volatility of Liquefied Petroleum (LP) Gases"
			NCh 1940 "Liquefied petroleum gases (LPG) Determination of residues" / ASTM D2158 "Standard Test Method for Residues in Liquefied Petroleum"
			NCh 75: "Liquefied Petroleum Gases – Dryness Detection in Propane – Valve Freezing Method" / ASTM D2713 "Standard Test Method for Dryness of Propane (Valve freeze Method)"

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Liquefied Petroleum Gas Analysis (continued)	Liquid petroleum gas (LPG) (continued)	Liquid petroleum gas (LPG) (continued)	NCh 2394 : "Liquefied petroleum gases and natural gas - Odor test / ASTM D6273 "Standard Test Method for Natural Gas Odor Intensity"
			NCh 1961: "Light petroleum gases and light hydrocarbons Determination of density or relative density. Pressure hydrometer method" / ASTM D1657 "Standard Test Method for Density or Relative Density of Light Hydrocarbons by Pressure Hydrometer"
			NCh 77 /ASTM D1267: "Standard Test Method for Gauge Vapor Pressure of Liquefied Petroleum (LP) Gases (LP-Gas Method)"
			NCh 76: "Liquefied petroleum gases (LPG) - Corrosive action on copper - Copper strip test" / D1838 "Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases"
			LDC-024: "Determination of free water in liquefied gas"

