



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Rocky Mountain Reference Material, LLC
521 Violet St.
Golden, CO 80401-6714

Fulfills the requirements of

ISO 17034:2016

In the field of

REFERENCE MATERIAL PRODUCER

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R.D.L.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 28 November 2023

Certificate Number: AR-2528



This reference material producer is accredited in accordance with the recognized International Standard ISO 17034:2016.
This accreditation demonstrates technical competence for a defined scope and the operation of a reference material producer quality management system.

SCOPE OF ACCREDITATION TO ISO 17034:2016

Rocky Mountain Reference Materials, LLC

521 Violet St.
Golden, CO 80401-6714
Daniel Geist 720- 943-7676
daniel@rmmrs.com

REFERENCE MATERIAL PRODUCER

Valid to: **November 28, 2023**

Certificate Number: **AR-2528**

Chemical

Sub-Category of Reference Material	ILAC RM Category	Class or Type of Reference Materials Produced (Include Range Where Applicable)	Methods or Techniques Used in the RMP Laboratory (if Appropriate)
CP Iron & Iron alloys (Including Cast Irons) Carbon Steels (including Rephosphorized & Resulfurized Steels) Low Alloy Steels (Including Tool Steel Alloys) High Alloy Steels (Including Stainless & High Temperature Steels)	A1.1	Certified Reference Materials for Elemental Chemistry % Level Periodic Elements (1-85) Uncertainty: (0.5 to 10) % < % Level Periodic Elements (1-85) Uncertainty: (1 to 20) %	Measurements carried out using a variety of analytical methods including but not limited to: WD-XRF, ED-XRF, AS-AES, DCA-AES, HC-AES, GD-AES, GD-MS, DCP-AES, ICP-AES, ICP-MS, AA, GF-AA, Inert Gas Fusion and Combustion Techniques, Classical Wet Chemistry, etc. As applicable by the elemental concentration of concern and its corresponding matrix, and of demonstrable accuracy.
CP Aluminum & Aluminum alloys CP Zinc & Zinc alloys CP Magnesium & Magnesium alloys CP Copper & Copper alloys (Including Brass & Bronze Alloys) CP Nickel & Nickel alloys CP Cobalt & Cobalt alloys	A1.2		
CP Titanium & Titanium alloys CP Zirconium & Zirconium alloys	A1.4		



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Notes:

1. Please contact the RMP organization for more information on CRM uncertainty values, U_{CRM} values, and other specific lot values. Some of this information may also be available on the RMP's website.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AR-2528.

R. Douglas Leonard Jr., VP, PILR SBU