



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Alpha Resources, Inc.
3090 Johnson Road
Stevensville, MI 49127

has been assessed by ANAB
and meets the requirements of international standard

ISO Guide 34:2009

while demonstrating technical competence in the field of

Reference Material Producer

Refer to the accompanying Scope of Accreditation for information regarding the types of materials to which this accreditation applies.

AR-1920

Certificate Number



ANAB Approval

Certificate Valid: 12/19/2016-01/04/2018
Version No. 003 Issued: 12/19/2016





ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO GUIDE 34:2009

Alpha Resources, LLC

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REFERENCE MATERIAL PRODUCER

Valid to: January 4, 2018

Certificate Number: AR-1920

Category and Sub-Category of Reference Material	ILAC RM Category	Class or Type of Reference Materials Produced (include range where applicable)	Methods or Techniques Utilized in the RMP Laboratory if appropriate
Ferrous Based Materials (solid, chips, or powder) Iron alloys and Steel alloys	A1.1	Carbon <ul style="list-style-type: none"> • Steel • Iron Sulfur <ul style="list-style-type: none"> • Steel • Iron Oxygen <ul style="list-style-type: none"> • Steel • Iron Nitrogen <ul style="list-style-type: none"> • Steel • Iron 	ASTM E1019 ARI-033 ASTM E1019 ARI-033 ASTM E1019 ARI-034 ASTM E1019 ARI-034
Nonferrous Based Materials (solid) Titanium alloys	A1.2	Carbon <ul style="list-style-type: none"> • Titanium Oxygen <ul style="list-style-type: none"> • Titanium Nitrogen <ul style="list-style-type: none"> • Titanium Hydrogen <ul style="list-style-type: none"> • Titanium 	ASTM E1941 ARI-033 ASTM E1409 ARI-034 ASTM E1409 ARI-034 ASTM E1447 ARI-036



Category and Sub-Category of Reference Material	ILAC RM Category	Class or Type of Reference Materials Produced (include range where applicable)	Methods or Techniques Utilized in the RMP Laboratory if appropriate
Inorganic Solid Fuels	A2.5	Sulfur <ul style="list-style-type: none"> • Coal • Coke 	ASTM D4239 ARI-035
Petroleum Products (fuels and lubricants)	A3.5	Sulfur <ul style="list-style-type: none"> • Lube oil • Petroleum fuels 	ASTM D4294 ARI-078
Stoichiometry Standards	A2.6	BTU's <ul style="list-style-type: none"> • Benzoic Acid 	ASTM D240 ARI-079
Inorganic/Organic Compounds	A2/A3	LOI <ul style="list-style-type: none"> • Blended solid 	ASTM C25 ARI-192

Notes:

1. Please contact the RMP organization for more information on CRM uncertainty values, Ucrm 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- 1920.



 Vice President