ALPHA RESOURCES LLC

Value Beyond Measure

For Immediate Release

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Certified Reference Materials Releases for Q1 2025

Stevensville, Michigan, April 15, 2025 – Alpha Resources LLC, the largest manufacturer of aftermarket consumables and reference materials, is pleased to announce the following new product offerings and updates in certified reference materials which have been released in Q1 of 2025 from their ISO 17025 lab.

New Lots available in Q1 2025 for Organic Reference Materials include:

- AR1746 | Lot 250106 | Coal CRM (3.88±0.15%S)
- AR1946 | Lot 240627 | Wood Pulp CRM
- AR2028 | Lot 240801 |Rice Flour CRM (C=45.50%, N=1.46%, S=0.11%)
- AR2836 | Lot 250107 | Lube Oil CRM (2.07±0.09%S)
- Benzoic Acid | Lot 2431| Product numbers listed below:
  - AR208
  - AR208C
  - AR208V
  - AR1790
  - AR1790C
  - AR1790V
  - AR3403

AR4015 | Synthetic Soil CRM | Lot 240728

Property	Value	$U_{95\%}$
% Carbon	1.382	0.050
% Sulfur	0.162	0.023

In Q1 2025, Alpha released a brand new, Inorganic Certified Reference Material.

AR143 | Copper Pin CRM | Lot # 240520

Element	Value	(+/-)	Method & Detection
%Oxygen	0.0012	0.00045	Inert Gas Fusion/TC

Note: (+/-) indicates expanded uncertainty.

New lots released of available Inorganic Certified Reference Materials in Q1 2025 include:

AR555 | Steel Pin CRM | Lot # 240620

Element	Value	(+/-)	Method & Detection	n
%Hydrogen	0.00015	0.00007	Inert Gas Fusion/TC or IR	59

Note: (+/-) indicates expanded uncertainty.

AR588 | Titanium Pin CRM | Lot # 240531

Element	Value	(+/-)
%Carbon	0.0091	0.0030
%Hydrogen	0.0178	0.0019

Note: (+/-) indicates expanded uncertainty.

AR642 | Titanium Pin CRM | Lot # 240414

Table 1.

Element	Value	(+/-)	Method & Detection	n
%Oxygen	0.0453	0.0120	Inert Gas Fusion/IR	59
%Hydrogen	0.0046	0.0013	Inert Gas Fusion/TC	60

Note: (+/-) indicates expanded uncertainty.

Table 2.

Element	Value	Method & Detection	n
%Nitrogen	0.0025	Inert Gas Fusion/TC or IR	59

AR656 | Steel Pin CRM | Lot # 240219

Element	Value	(+/-)
%Oxygen	0.0030	0.0009
%Carbon	0.0249	0.0249

Note: (+/-) indicates expanded uncertainty.

AR661 | Steel Pin CRM | Lot # 240414

Table 1.

Element	Value	Method & Detection	n
%Nitrogen	0.0086	Inert Gas Fusion/TC	59

Note: (+/-) indicates expanded uncertainty.

Table 2.

Element	Value	Method & Detection	n
%Oxygen	0.0007	Inert Gas Fusion/IR	59

Note: (+/-) indicates expanded uncertainty.

AR871 | Steel Ring CRM | Lot # 240729

Element	Value	(+/-)
%Carbon	0.0617	0.0048
%Sulfur	0.0243	0.0026

Note: (+/-) indicates expanded uncertainty.

AR892 | Steel Pin CRM | Lot # 240725

Element	Value	(+/-)
%Carbon	0.00729	0.00040
%Sulfur	0.00208	0.00028

AR882 | Steel Pin CRM | Lot # 240507

Element	Value	(+/-)	Method & Detection	n
%Carbon	0.0585	0.0041	Combustion/IR	60
%Sulfur	0.0191	0.0017	Combustion/IR	60

Note: (+/-) indicates expanded uncertainty.

AR943 | Inconel Powder CRM | Lot #240708

Element	Value	(+/-)	Method & Detection	n
%Carbon	0.034	0.005	Combustion/IR	40
%Sulfur	0.0021	0.0007	Combustion/IR	40

Note: (+/-) indicates expanded uncertainty.

AR950 | Steel Chip CRM | Lot # 250312

Element	Value	(+/-)
%Carbon	0.0587	0.0040
%Sulfur	0.356	0.023
%Nitrogen	0.0378	0.0012

Note: (+/-) indicates expanded uncertainty.

AR952 | Steel Chip CRM | Lot # 240226

Element	Value	(+/-)	Method & Detection	n
%Carbon	0.462	0.010	Combustion/IR	59
%Sulfur	0.0235	0.0033	Combustion/IR	60
%Nitrogen	0.0072	0.0006	Inert Gas Fusion/TC	60

Note: (+/-) indicates expanded uncertainty.

AR955 | Titanium Pin CRM | Lot# 231211

Element	Value	(+/-)	Method & Detection	n
%Carbon	0.212	0.006	Combustion/IR	40
%Sulfur	0.0244	0.0038	Combustion/IR	40
%Nitrogen	0.0069	0.0007	Inert Gas Fusion/TC	40

Note: (+/-) indicates expanded uncertainty.

AR1652 | Steel Pin CRM | Lot # 240612

Element	Value	(+/-)
%Oxygen	0.00296	0.00065
%Nitrogen	0.0579	0.0032

Note: (+/-) indicates expanded uncertainty.

AR4022 | Limestone CRM | Lot # 240606

Element	Value	(+/-)	Method & Detection	n
%Carbon	7.180	0.150	Combustion/IR	30
%Sulfur	0.0516	0.0112	Combustion/IR	32

Note: (+/-) indicates expanded uncertainty.

A complete list of Alpha Resources certified reference materials maybe found online at: https://www.alpharesources.com/current-list-of-standards.php

About Alpha Resources

Founded in 1978, Alpha Resources, LLC is a global leader in the manufacture and distribution of consumables and certified reference materials for use in atomic spectroscopy analysis. Alpha Resources is ISO17034, ISO17025, ISO9001:2015 certified.