



Value Beyond Measure

For Immediate Release

Contact: Alexandria Trusov

Atrusov@alpharesources.com

Certified Reference Materials Releases for Q3 2024

Stevensville, Michigan, October 10, 2024 – 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 Q3 of 2024 from their lab.

New Lots available in Q3 2024 for Organic Reference Materials include:

- AR1702 | Lot 240716 (0.74±0.03% S in Coal CRM)
- AR2018 | Lot 240410 (Alfalfa CRM)
- AR2778 | Lot 240624 (Ultimate Coal CRM)

New lots released of available Inorganic Certified Reference Materials in Q3 2024 include:

Steel Pin Certified Reference Material

Product No: AR511 | Lot No: 240429

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.051	0.002	Combustion/IR	40	2.0
% Sulfur	0.304	0.021	Combustion/IR	40	2.0

Note: (+/-) indicates expanded uncertainty.



Titanium Pin Certified Reference Material

Product No: AR587 | Lot No: 240415

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.0082	0.0017	Combustion/IR	40	2.0
% Hydrogen	0.0104	0.0012	Inert Gas Fusion/TC	39	2.0

Note: (+/-) indicates expanded uncertainty.

Titanium Pin Certified Reference Material

Product No: AR589 | Lot No: 240417

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.0116	0.0020	Combustion/IR	47	2.0
% Hydrogen	0.0241	0.0027	Inert Gas Fusion/TC	50	2.0

Note: (+/-) indicates expanded uncertainty.

Steel Pin Certified Reference Material

Product No: AR645 | Lot No: 240208

Element	Value	(+/-)	Method & Detection	n	k
% Oxygen	0.0053	0.0012	Inert Gas Fusion/TC	48	2.0
% Nitrogen	0.0056	0.0007	Inert Gas Fusion/TC	48	2.0

Note: (+/-) indicates expanded uncertainty.

Steel Pin Certified Reference Material

Product No: AR885 | Lot No: 240207

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.817	0.025	Combustion/IR	60	2.0
% Sulfur	0.0051	0.0005	Combustion/IR	60	2.0

Note: (+/-) indicates expanded uncertainty.



Steel Pin Certified Reference Material

Product No: AR894 | Lot No: 240229

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.568	0.036	Combustion/IR	50	2.0
% Sulfur	0.0033	0.0010	Combustion/IR	50	2.0

Note: (+/-) indicates expanded uncertainty.

Steel Chip Certified Reference Material

Product No: AR949 | Lot No: 240123

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.015	0.003	Combustion/IR	40	2.0
% Sulfur	0.029	0.003	Combustion/IR	40	2.0
% Nitrogen	0.0384	0.0038	Inert Gas Fusion/TC	40	2.0

Note: (+/-) indicates expanded uncertainty.

Steel Chip Certified Reference Material

Product No: AR960 | Lot No: 1023V

Table 1. Certified values for AR960, Lot 1023V.

Element	Value	(+/-)	Method & Detection	n	k
% Carbon	0.140	0.006	Combustion/IR	40	2.0
% Nitrogen	0.040	0.003	Inert Gas Fusion/TC	40	2.0

Note: (+/-) indicates expanded uncertainty.

Table 2. Non-certified and reference values for AR960, Lot 1023V.

Element	Value	Method & Detection	n
% Sulfur	0.0017	Combustion/IR	39



Hydrogen in Carbon Reference Material

Product No: AR6121 | Lot No: 240214

Element	Value	Method & Detection	n
% Hydrogen	0.213	Inert Gas Fusion/TC	10

Hydrogen in Carbon Reference Material

Product No: AR6122 | Lot No: 240215

Element	Value	Method & Detection	n
% Hydrogen	0.317	Inert Gas Fusion/TC	10

Hydrogen in Carbon Reference Material

Product No: AR6123 | Lot No: 240216

Element	Value	Method & Detection	n
% Hydrogen	0.419	Inert Gas Fusion/TC	10

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 creation of certified reference materials for use in elemental combustion analysis, and is ISO17034, ISO17025, ISO9001:2015 certified.