# **ALPHA®** Pot Rite®

A Premium Solder Analysis Service

# **Ensure Solder Baths are within Required Specification for Successful Soldering Operations**

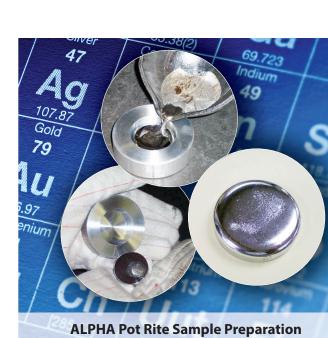
The ALPHA Pot Rite Service throughly analyzes samples taken from solder pots, soldering machines, and selective soldering systems at our ISO 17025 accredited lab with traceability to NIST (National Institute of Standards and Technology).

Customers are provided a complete, quantitative report on their solder bath, listing in detail the test method and measurement for each element. This report can be used as objective evidence of compliance to J-STD-001, RoHS, and other customer requirements during internal and external audits.

This real time service helps to quickly identify solder that is out of specification, while making recommendations to solve the issue, allowing you to minimize risks of supplying out of specification products to your customers. Keeping solder at its ideal quality prevents costly manual touch-up work, rejects, field failures, and factory downtime caused by poor soldering conditions.

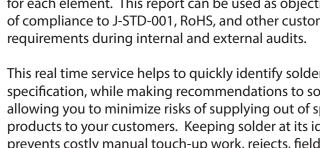
#### **KEY FEATURES**

- ISO 17025 accredited laboratory.
- Alpha is one of a select number of labs in North America accredited for solder analysis.
- Regularly calibrated equipment (high throughput XRF and **Optical Emission Spectrometer)**
- 24 hour turn around on results; often same day service upon receipt of material
- Analysis report provides complete, quantitative results which can be compared to J-STD-001 Assembly Standards
- Our full time staff with over 80 years experience is here to help you.











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# **Analysis Report**

Below is a sample of the types of results provided in a typical Alpha Analysis Report. This data provides critical information to support your processes and prevent costly delays.

SPECIFICATION: J-STD-001G (SAC305)

ELEMENT / TEST		RESULT	Unit	MINIMUM	MAXIMUM	SF*	MU**	METHOD / TECHNOLOGY
(Sn)	Tin	96.24	% Weight	95.500	97.500	-	-	Calculated as Balance
(Pb)	Lead	0.026	% Weight	-	0.100	1	0.005	WI-01231, OES
(As)	Arsenic	0.002	% Weight	-	0.030	2	0.002	WI-01231, OES
(Cu)	Copper	0.54	% Weight	-	1.100	1	0.02	WI-01233, XRF
(Bi)	Bismuth	0.008	% Weight	-	0.250	2	0.001	WI-01231, OES
(Zn)	Zinc	0.001	% Weight	-	0.005	3	0.0003	WI-01231, OES
(Fe)	Iron	0.002	% Weight	-	0.020	3	0.0004	WI-01231, OES
(Ag)	Silver	3.13	% Weight	-	4.000	1	0.04	WI-01233, XRF
(Sb)	Antimony	0.017	% Weight	-	0.200	2	0.002	WI-01231, OES
(Ni)	Nickel	0.015	% Weight	-	0.050	2	0.0003	WI-01231, OES
(Cd)	Cadminum	<0.001	% Weight	-	0.005	3	0.0005	WI-01231, OES
(Al)	Aluminum	<0.001	% Weight	-	0.006	3	0.0003	WI-01231, OES
(Au)	Gold	0.012	% Weight	-	0.200	1	0.0005	WI-01231, OES
(In)	Indium	0.003	% Weight	-	-	-	0.0003	WI-01231, OES
(S)	Sulfur	0.001	% Weight	-	-	-	0.0005	WI-01231, OES
(P)	Phosphorus	0.001	% Weight	-	-	-	0.002	WI-01233, XRF

### **Getting Started & Best Practices**

- Contact Alpha or your local Alpha representative to enroll in the Pot Rite Analysis Program.
- For quickest turn around of samples, enroll prior to needing testing.
- To ensure best results, follow all instructions and use provided program materials.

## Additional Services - Reclaim & Recycling

Alpha provides electronics assemblers safe, efficient solder recycling services which will help you meet environmental and legislative requirements while maximizing the return on solder dross, scrap and solder paste waste. We have an experienced staff dedicated to reclamation efforts that will help you minimize your environmental liability. For more information on how to recycle with Alpha, contact Alpha or your local Alpha representative.





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Alpha is a product brand of MacDermid Alpha Electronics Solutions.

For more information, contact us at Assembly@MacDermidAlpha.com

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