

KOLENE Corporation

Laboratory Services



Description of Services

The proper chemical maintenance of a Molten Salt Bath (MSB) is critical to the consistent output of a quality product. Kolene has a well outfitted lab to carry out numerous quantitative and qualitative tests needed to support an MSB operation. Our laboratory is staffed with knowledgeable scientists and technicians, with over 70 years of combined experience, able and willing to help you with the monitoring of your MSB.



Available Testing†

Wet Chemistry

- Carbonate/bicarbonate
- Cyanide/cyanate
- Nitrate/nitrite, F⁻, Cl⁻
(ion chromatography)
- Metal content
(ICP-OES)
- Insolubles

Particle Size Distribution

(sieve shake test)

Metallurgical

- Optical Microscopy
- Macro hardness testing
- Micro hardness testing

Borescope Inspection of Castings

Profilometry

(contact & non-contact)



Molten Salt Sampling Procedure

WEAR THE PROPER PROTECTIVE CLOTHING (LONG SLEEVES, GLOVES, FACE SHIELD, HEAD COVER), OPEN THE ACCESS DOOR OR WINDOW OVER THE SALT BATH AND PROCEED AS FOLLOWS:

Using a smooth, clean, cool and dry steel bar*, immerse one end into the salt, withdrawing it quickly and allowing the sample to solidify on the bar. The salt will flake off as it cools. Put the flakes into a clean, dry sample can. At least 10.0 grams (1/3 ounce) are required for analysis. Seal the sample can with tape (electrical tape works well) to exclude moisture. Send the sample to Kolene Corporation for analysis.

*3/4" to 1" (19 mm to 25 mm) in diameter

18" – 24" (457 mm – 610 mm) long

DO NOT USE PIPE OR TUBING

Please contact services@kolene.com or check www.kolene.com for instructions on shipping samples.



Pricing**

General Consulting	\$150/hr
Cleaning Salt Analysis*	\$150
Nitriding Salt Analysis	\$150
Metal Content of Salt (up to 4 elements)	\$100
- Each additional element	\$20
Optical Microscopy (w/digital photos)	\$200
Hardness Testing	
- Macro	\$75
- Micro (profile)	\$150
Particle Size Distribution	\$75
Profilometry	
- Contact	\$50
- 3D non-contact	\$200

*Cleaning salt analysis is provided complementary for customers using Kolene® salts.

**Issued August of 2018. Prices are subject to change.



Contact Us

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