



KOLENE

LABORATORY

Kolene Lab

Proper chemical maintenance of a Molten Salt Bath is crucial for consistent, high-quality output. Kolene’s advanced lab conducts comprehensive testing to support your optimal performance. With experienced scientists and technicians, we leverage decades of industry leading expertise to help you monitor and maintain your equipment, ensuring efficiency and superior product quality.

AVAILABLE TESTING

Wet Chemistry

- Carbonate / Bicarbonate
- Cyanide / Cyanate
- Nitrate / Nitrite, F-, Cl- (Ion Chromatography)
- Metal Content (ICP-OES)
- Insolubles

Metallurgical

- Optical Microscopy
- Macro & Micro hardness testing

Borescope Inspection of Castings


Profilometry (contact and non-contact)


Particle Size Distribution (sieve shake test)


**Some results may not be available due to proprietary formulations and trade secrets.*

SERVICE PRICING

- **Cleaning Salt Analysis**.....\$ 350.00
- **Heat Treating Salt Analysis**.....\$ 400.00
- **Nitriding Salt Analysis**.....\$ 500.00
 - *(includes base and quench)*
- **Metal Content of Salt**.....\$ 200.00
 - *(up to four elements included)*
 - Each additional element.....\$ 50.00
- **Optical Microscopy**.....\$ 400.00
 - *(with digital photos provided)*
- **Hardness Testing**
 - Macro.....\$ 150.00
 - Micro (profile).....\$ 300.00
- **Particle Size Distribution**.....\$ 200.00
 - *(sieve analysis)*
- **Profilometry - 3D non-contact**...\$ 400.00

 <https://kolene.com>

 sales@kolene.com

 Main Phone: +1 313-273-9220

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MOLTEN SALT SAMPLING PROCEDURE



WEAR THE PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE)

LONG SLEEVES, GLOVES, FACE SHIELD, HEAD COVER, PROPER HEAT SHIELDING
AS REQUIRED - SILVERS

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 allowing the sample to solidify on the bar. The salt will flake off as it cools. Put the flakes into a clean, dry, heat resistant, and airtight container. At least 10.0 grams (1/3 ounce) are required for analysis. Seal the sample with tape (electrical tape works well) to exclude moisture. Send the sample to Kolene Corporation for analysis.


* 3/4" to 1" (19mm to 25mm) in diameter
18" to 24" (457mm to 610mm) in length


DO NOT USE PIPE OR TUBING


Please call us at +1 313 273-9220 or contact us at sales@kolene.com

You can also check out our Lab Services webpage for instructions on shipping samples.

*Issue Date: March/2025
Prices subject to change.*

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