Gold Pan

LT-M0616 | Gravity separation of gold and heavy minerals

Stream sediment and alluvium • Water washing • Manual pre-concentration



Ø35 cm

APPROXIMATE PAN DIAMETER

Manual

OPERATION

14 inch • Metal-alloy body • Green working surface

LT-M0616

Photographs and Product Structure

Pan rim, grooved surface, bottom section and green body

The LT-M0616 helps separate heavy mineral particles from sand, gravel and alluvial samples. Controlled water movement removes lighter material while denser particles concentrate near the bottom.

PAN RIM

The broad rim allows controlled movement of the sample in water.

GROOVED INNER SURFACE

The photograph shows concentric grooves along the inner surface.

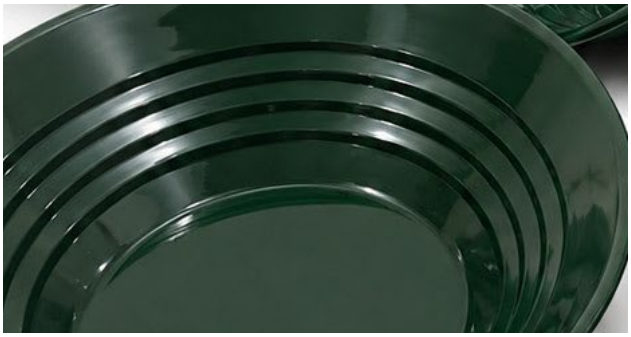


BOTTOM SECTION

The heavy-mineral concentrate collects here after washing.

GREEN WORKING SURFACE

The surface colour supports observation of gold and dark heavy-mineral particles.



Grooved inner surface and pan rim



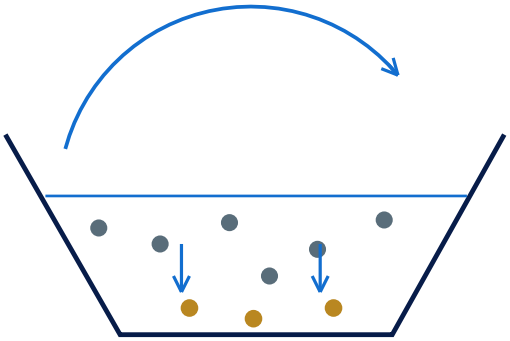
Bottom section and green working surface

LT-M0616

Mineral Separation by Density

Wetting and movement • Lighter material removal • Heavy-mineral concentrate

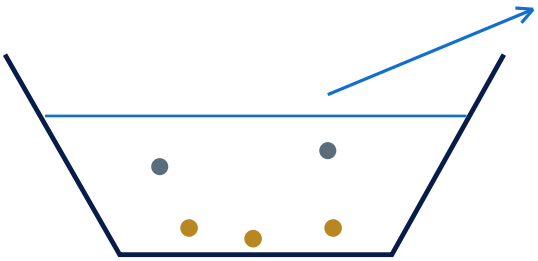
Stratification in Water



HEAVY PARTICLES CONCENTRATE BELOW

The sample is fully wetted. Circular and shaking movements allow denser particles to move toward the bottom.

Controlled Washing

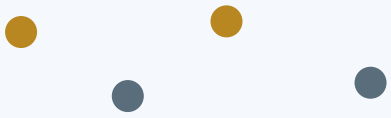


LIGHTER MATERIAL WASHES AWAY

The pan is tilted slightly forward. Water movement gradually carries away the lighter material near the surface.

The process reduces the sample to a smaller heavy-mineral concentrate. Gold may remain together with black sand and other dense minerals.

Heavy-mineral Pre-concentration



The pan supports visual examination of heavy minerals in stream sediment and alluvial samples. Liberated dense particles can be concentrated for subsequent examination.

Field and Laboratory Use

14 inch

Used in geological exploration, gold prospecting and preliminary sample assessment. Portable construction and manual operation support on-site examination of field samples.

Technical Data and Panning Workflow

LT-M0616 • Size, body, surface and manual operation

Technical Specification	Value
Product Code	LT-M0616
Approximate Pan Diameter	Ø35 cm
Nominal Size	14 inch
Body Material	Metal alloy
Working Surface	Green
Separation Principle	Gravity separation by density
Operation	Manual washing with water
Sample Types	Sand, gravel and alluvium
Electrical Connection	Not required

Examination of the Concentrate

The remaining heavy-mineral concentrate is examined visually. Particle size, mineral liberation and operator technique influence the separation result.

Gold Panning Workflow

01
Load Sample
Place a suitable amount of sand and gravel in the pan.

02
Wet and Agitate
Add water, wet the entire sample and shake gently.

03
Wash Light Material
Tilt slightly and wash away lighter material at the surface.

04
Examine Concentrate
Observe the heavy mineral particles remaining at the bottom.

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