



MINERAL PROCESS CONTROL

Product Catalogue 2021

"Home of
LeachWELL, the
original leach
accelerator ""

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A Global Reach



**Supplying to over 30
global locations!**

Through continuous innovation, product efficacy and a robust supply chain network, we are the leaders in supporting the global mining industry.

Technical Support



With over 30 years of experience, the team at MPC are leaders in the development of mining and assaying industry products and equipment.

MPC can provide unrivalled knowledge in the testing and application of our products to suit your needs.

Our technical staff have a diverse range of industry experience. This allows us to work with you to ensure that our products and technologies can provide the results you require.

"No one else can match the support that MPC can provide".

LeachWELL GC



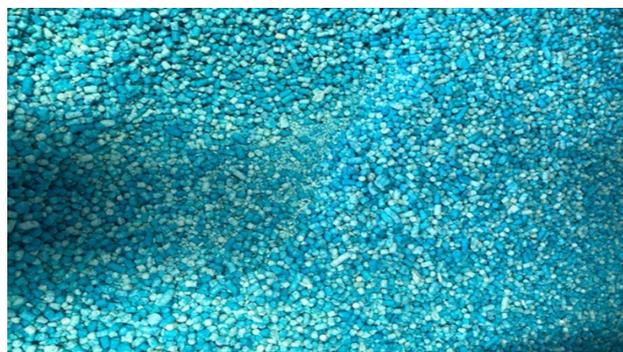
***LeachWELL GC** is a reagent grade catalyst formulated for fast cyanide leaching of course gold.*

Unlike imitators, **LeachWELL GC** accelerates leach kinetics at ambient temperatures without the need for further energy input.

LeachWELL GC will increase your leach rate by up to 60 fold - rates that no other leach accelerator can match.

LeachWELL GC will:

- Reduce your gold lockup
- Increase your course gold recovery rates
- Decrease the effects of preg robbing ores
- Decrease the negative recovery effects of Sulphide based ores



LeachWELL GC is supplied in 10kg buckets and 35kg boxes.

LeachWELL 60X



LeachWELL 60X is a reagent grade catalyst formulated for fast cyanide leach gold assaying.

When used with 5% cyanide the dissolution rate of gold, copper and silver is increased by more than sixty-fold.

The leach rate for gold under appropriate conditions, for example, is approximately 1 micron per minute!

- Large samples can be assayed quickly.
- Gold, silver and copper can be read from the same sample.
- Preg-robbing by organics or clays is practically eliminated.
- The procedure is simple and requires no special skills.
- Coarse gold is dissolved quickly.
- **LeachWELL 60X** has built-in oxidising agents so that sealed jars can be used when leaching



LeachWELL 60X comes in 1kg and 10kg packages

LeachWELL GREEN



LeachWELL GREEN is a reagent grade catalyst formulated for fast cyanide leaching of course gold, where the introduction of heavy metals can be an issue.

When used with 5% cyanide the dissolution rate of gold, copper and silver is increased by more than 12 times.

While not as fast as **LeachWELL GC**, **LeachWELL GREEN** offers a cost-effective accelerator that will satisfy your ESG requirements.

LeachWELL GREEN is ideal for plants where environmental constraints restrict the introduction of additional heavy metals into the process.

If you are looking for a more sustainable accelerator, LeachWELL GREEN is the product to use.



LeachWELL GREEN comes in 10kg buckets and 700kg bulk bags

PAL-1000

Fast, High-Quality, Low Cost,
Onsite Gold Assays



MPC's PULVERISE AND LEACH machine can simultaneously pulverize and leach a batch of 52 large (~1kg) samples enabling gold assays to be obtained within two hours of samples arriving at the laboratory.

The emphasis on pulverising the entire sample is removed in most cases because such a large sample is assayed, not just prepared.

Samples are completely pulverised (typically better than 90% -75 μ m) and simultaneously leached with cyanide and LeachWELL in less than an hour

The machine is fully enclosed for safety and quieter operation and cannot be started until the front doors are closed. Operating parameters for each cycle are fully programmable.

**ONE MACHINE IS CAPABLE OF PROCESSING between 400
and 500 SAMPLES PER 12 HOUR SHIFT**

Product Code: PAL1000

AssayTabs

Fast cyanide leach
gold assaying



Assay Tabs have been formulated for fast cyanide leach gold assaying.

Each **Assay Tab** contains the appropriate amount of cyanide and **LeachWELL** to facilitate a 1-hour leach when used according to our instructions.

The leach rate for gold for example is approximately 1 micron per minute! Large samples can now be assayed accurately and very quickly (same time frame as Aqua Regia).

Poor reproducibility (scatter) when coarse gold is present is minimised - meaningful results can be consistently produced.

How else can you benefit from Assay tabs:

- Large samples can be assayed quickly.
- Gold, silver and copper can be read from the same sample.
- Preg-robbing by organics or clays is practically eliminated.
- The procedure is simple and requires no special skills.
- Coarse gold is dissolved quickly.
- Each Assay Tab has built-in oxidising agents so that sealed jars can be used when leaching.

AssayTabs are supplied in 10kg buckets and 40kg drums



Assay Tumbler



A bottle roll alternative - efficient,
faster leaching



Tumbling is often preferred to rolling bottle agitation for cyanide leaching because it is more active. This results in more efficient and faster leaching.

MPC's **Assay Tumbler** provides a unique mixing action to produce fast and efficient leaching.

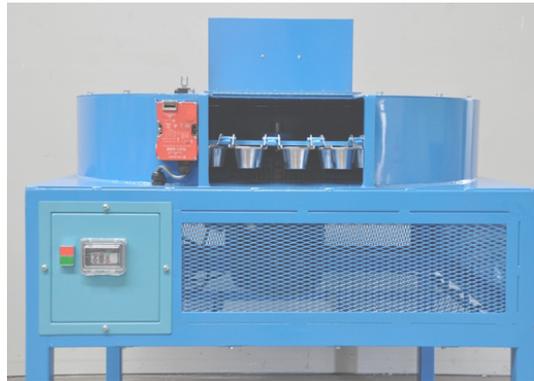
Each **Assay Tumbler** has the capacity to hold 60 x 1 L jars, held in place in 4 plastic tote trays, each with a capacity of 15 jars. One set of jars and trays is supplied with the tumbler and additional Jars and trays sold separately

The **Assay Tumbler** is offered in configurations for either three-phase or single-phase power. Power requirements are either 415VAC, 3-phase, 50Hz. 10A. suitable for a 0.37kw 3 phase motor or 240VAC 50HZ 10A suitable for a 0.37kw single phase motor.

Product Code: T60.1 (Single Phase) T60.3 (Three Phase)

Centrifuge

Assisted settling to reduce assaying times



With MPC's **Centrifuge**, settling times are no longer a problem. Most samples provide enough volume of clear solution for solvent extraction AAS finish in less than 5 minutes.

The machine has a capacity of 52 samples of up to 100mL volume each, matching the sampling requirements of the **PAL-1000**.

However, it can also assist in reducing settling times for pulps generated utilising a **Bottle Roll** or **Assay Tumbler**.

Accelerations up to 280 times gravity will settle even the most stubborn of clay-based samples.

The **Centrifuge** utilises disposable, low cost plastic cups available from MPC.

Product Code: LC05

3-Tier Bottle Roll



High volume bottle rolls



MPC's **3 Tier Bottle Roller** has three layers of 5 rollers providing a maximum capacity of 250, 4.5, 2 or 1-litre bottles.

The MPC **3 Tier Bottle Roll** provides a low cost, high capacity solution for grade and process control.

An alternative to the **Assay Tumbler** when large volumes and quick turnarounds are required.

Combined with the **LeachWELL** leach accelerator, turn arounds of less than 2 hours can be achieved.

Product Code: BR3x5

DTOX

Waste Water Treatment



DTOX is a wastewater treatment product that precipitates heavy metals and neutralises cyanide.

DTOX reacts quickly with free and complex cyanides. The end products are ultimately released to the environment as carbonates and ammonia (beneficial flora). Test work has shown that the reaction is rapid and much safer than hypochlorite.

Advantages

- Easy to use
- Readily available
- Manufactured in Western Australia
- More rapid than other methods
- Much safer than hypochlorite.

DTOX comes in solution form and can be used to rid wastewater of hazardous metals such as chromium, copper, silver, lead, cadmium, mercury, nickel, zinc, arsenic and selenium. The sulphide component of **DTOX** precipitates the heavy metals as their very insoluble sulphide minerals (most of which occur in nature). These can then be either recovered for resale or safely discharged into the environment.

DTOX precipitation of metals is relatively insensitive to chelating agents and eliminates the need to treat those wastes separately. This sulfide process has the ability to remove chromates and dichromate without preliminary reduction of the chromium in the trivalent state.

DTOX can be incorporated into previously existing treatment facilities with minimal costs. In most cases, a simple dosing pump is all that is required.

Product Code: DTOX DTOX comes in 20IL, 200L and IBC's

Water Dispenser



An ideal time-saving tool for the assay laboratory.



Reproducible assay results require a rigorous and consistent application of the procedure. This includes the accurate and precise addition of reagents and samples.

The water dispenser provides a simple and convenient way to deliver a pre-set and reproducible volume of water as required for cyanide soluble gold assays.

It is recommended for use in conjunction with our PAL1000 gold assay system, our laboratory tumbler or 3-tier bottle rollers.

Product Code: WD13

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