

Reusable UCS Mould

The **Aranzu** Reusable UCS Mould has been purposefully designed for use in the backfill and cement industries to produce high-quality samples for Unconfined Compressive Strength (UCS) testing and analysis.

These moulds are built to facilitate easy demoulding after curing, ensuring the integrity of the test samples while allowing for repeated use.

Manufactured with precision and practicality in mind, the moulds are used in conjunction with a release agent to prevent material adhesion during curing. They are available in a range of sizes to accommodate different types of backfill—whether Cemented Aggregate Fill (CAF), Hydraulic Fill or Normal Paste Fill—offering flexibility for various operational needs.



Design ➔ Construction Materials:

- Smaller moulds are crafted from durable polyurethane (PU) for lightweight handling and easy demoulding
- Larger moulds (200 mm and above) are made from stainless steel, ensuring superior strength, dimensional stability, and resistance to corrosion

Reusable Design:

- Each mould is designed for multiple testing cycles with minimal maintenance

Removable Sides:

- Moulds are equipped with quick-release panels or clamps, allowing the cured sample to be extracted easily without damage

Dimensional Precision:

- Consistent wall thickness and smooth internal surfaces ensure uniform sample curing and accurate UCS test results

↑ Reusable UCS Mould cont...

Application → The **Aranzu** Reusable UCS Mould is ideal for laboratories and operations involved in:

- Mine Backfill Quality Control
- Cemented Paste Fill Testing
- Cement and Grout Mix Design Evaluation
- Research and Development for geotechnical and materials testing

It is widely used in mining and civil construction environments where consistent and accurate UCS testing of cemented materials is essential for process optimisation and safety verification.

Variations → Material Options:

- Polyurethane (PU) – for smaller diameter moulds
- Stainless Steel – for larger moulds (≥ 200 mm diameter)

Size Range:

- Multiple diameters and heights available to suit different sample volumes and mix types

Custom Requirements → **Aranzu** offers full customisation of the UCS mould range to match site-specific testing standards and operational needs, including:

- Custom diameters, heights, or volumes
- Engraved sample IDs
- Adaptation for specific curing and demoulding procedures



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