



dolomite

mitos

standard microfluidic  
products

chips

microfluidic chips in glass,  
polymers, quartz, etc.

Innovators in microfluidic solutions

## What is the Mitos Range of Microfluidic Chips?

**Dolomite offer the Mitos range of standard chips to help you evaluate microfluidic concepts quickly and easily. These chips are part of the full Mitos range that includes interconnects, pumps, valves, etc. In addition to these standard products, Dolomite offer custom designed chips in glass, quartz, polymers, etc.**

### Mitos chips benefits

- **Wide temperature and pressure range:** Dolomite's microfluidic chips can operate up to temperatures of 400°C and pressures of 100 bar.
- **Variety of compatible interconnects:** Dolomite's wide range of microfluidic chips integrate quickly and easily with a wide range of interconnects (edge, circular connectors, etc.)
- **Wide range of materials:** Glass, fused silica, polymer, etc.
- **Embedded RTDs, sensors, mirrors, electrodes, etc:** Metals such as platinum, gold, copper, titanium and many more can be sputtered to create a wide range of features.
- **Excellent chemical compatibility:** Wetted materials include glass, PTFE and perfluoroelastomer.
- **Easy droplet generation:** The droplet generator chip offers consistent droplet production up to 1000s of droplets per second.
- **High visibility:** Excellent access for optics.
- **Variety of surface coatings:** Hydrophilic, hydrophobic.
- **Multiple chip layers:** Multiple glass layers can be fused to create more complex geometry.
- **Customized chips:** Dolomite offer custom made chips specific to your requirements.

### Mitos chip features

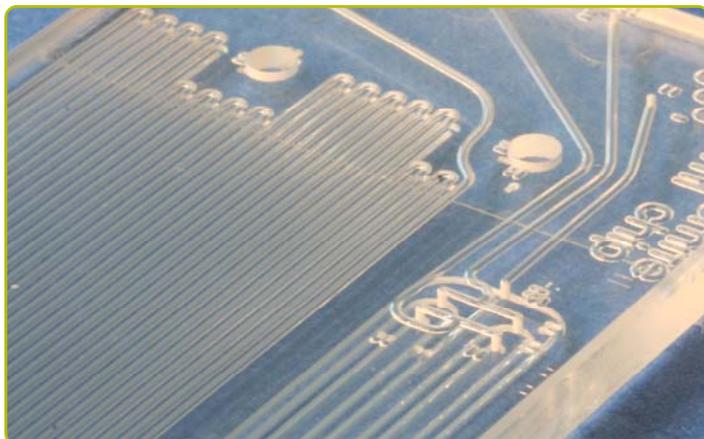
Dolomite's range of microfluidic chips provide channel networks with geometries for a wide range of applications.

Fabricated in glass, fused silica, polymer, etc. these chips are particularly suitable for applications where reusability, chemical compatibility, optical transparency and thermal characteristics are important.

For applications requiring modified surfaces, hydrophobic or hydrophilic channels can be provided. To facilitate integration with external fluidic networks, these chips can be used with one of Dolomite's standard interconnects.

### Other microfluidic devices

Dolomite also offer a Mitos range of standard products including connectors/interconnects, valves, pumps, etc.



A selection of Dolomite's current range of microfluidic chips includes:

**Mitos T-Junction Chip with Header** 3000014

**Mitos Thin Layer T-Junction Chip with Header** 3000086

**Mitos T-Junction Platinum Chip with Header** 3000089

**Mitos Quartz T-Junction Chip with Header** 3000141

**Mitos Droplet Generator Chip** 3000048

**Mitos Polymer Droplet Generator Chip** 3000145

**Mitos Droplet Junction Chip** 3000158

**1ml Microreactor Chip** 3000072

**Mitos Micromixer Chip** 3000144

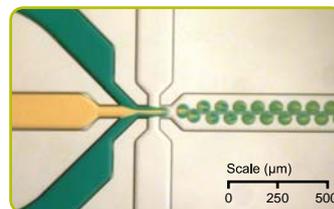
### Custom Microfluidic Chips

Dolomite design and manufacture a large amount of custom design microfluidic chips. Dolomite's experienced design team will work with you to discuss how we can achieve your custom chip. Please contact us for more details.

### Applications

The Mitos range of microfluidic chips have been designed for applications such as droplet generation, confocal microscopic analysis, reaction mixing, life science fluid manipulation, etc.

Contact Dolomite for a consultation with one of our engineers...



**Left:** 1ml microreactor chip

**Above:** Mitos Droplet Generator Chip producing 1000 droplets per minute

**Right:** The Mitos Thin Layer T-Junction Chip with Header



### Dolomite Microfluidics

Unit 1, Anglian Business Park, Royston,  
Hertfordshire, SG8 5TW, United Kingdom

**T:** +44 (0)1763 242491

**F:** +44 (0)1763 246125

**E:** info@dolomite-microfluidics.com

**W:** www.dolomite-microfluidics.com

### Dolomite-US

29 Albion Place  
Charlestown, MA 02129

**T:** 617 848 2997

**F:** 617 532 1033

**E:** salesus@dolomite-microfluidics.com

**W:** www.dolomite-microfluidics.com