RELEASE NOTES

Altair® Inspire Mold™

2024.1 and 2024.1.1

New Features and Enhancements 2024.1

Altair Inspire Mold 2024.1 includes the following new features and enhancements.
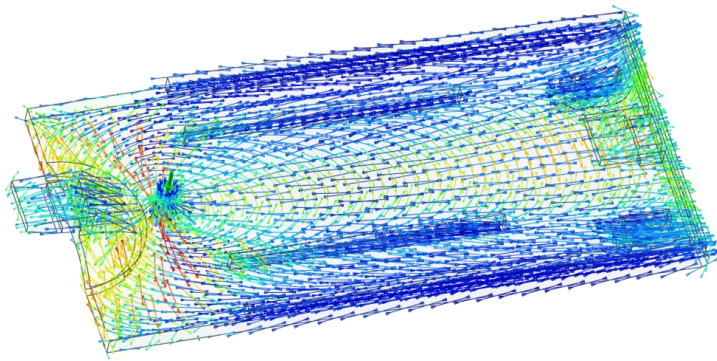
Release Highlights

Meshing Improvement

Mold's meshing process is improved for more robust and accurate results. This update includes no changes to workflows or controls, but analysis results will better represent your geometry, especially runners and sprues.

Fiber Orientation

The solver now allows fiber analysis. This will help users to analyze materials that contain fibers and test their behavior separately. Also, new post processing capabilities will allow users to visualize the fiber orientation tensors using vectors, plots, etc.

For more information see Result Types in the help:

https://2024.help.altair.com/2024.1/mold/en_us/topics/mold/analysis/view_simulation_results_t.htm

New Valve Gate Definition

Valve gates have been moved from the hot runners to the gate definition. This will help users to run analyses with valve gates.

For more information, see Valve Gates in the help:

https://2024.help.altair.com/2024.1/mold/en_us/topics/mold/gating/gate_c_2.htm

New Features and Enhancements 2024.1.1

Inspire Mold 2024.1.1 includes the following resolved issues.

Resolved Issues

- When using a hot runner with valve gates, in some cases the simulation would stop during the filling stage because of meshing issues. This has been resolved. [INSMOLD-2779]

- Bug fixes and improvements to the computation of the fiber orientation tensor:

  o Fixed an issue with the application of the diffusion terms

  o Added strain reduction factor (SRF) to the kinetic model

  o Improved default settings for better prediction of material behavior

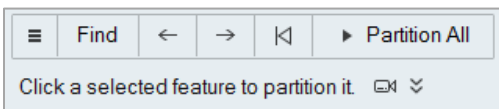# Learn More About Inspire Mold

You can learn more about new and existing features in Inspire using the following resources:

In-Application User Assistance

Inspire provides two types of user assistance. **Enhanced tooltips** appear when you hover over icons and other features. They describe what the tool does.

Workflow help appears when you select a tool that opens a guide bar or microdialog. The text prompts you what to do next.

Click to view additional tips and shortcuts. Some tools also include a video .

≡ | Find | ← | → | ⋈ | ▶ Partition All

Click a selected feature to partition it. ▭◁ ⌃

Holes and pockets are automatically selected and shown in red, but you can manually select faces as well.

🖱   Partition a selected feature.

Ctrl+🖱   Add/remove from selection.

Del   Remove a partition.

F1   Show Help

Online and Offline Help

Press **F1** or select **File > Help > Help** to view the online help.

You can download an offline version by selecting **File > Help > Download Offline Help**. An internet connection is required to download.