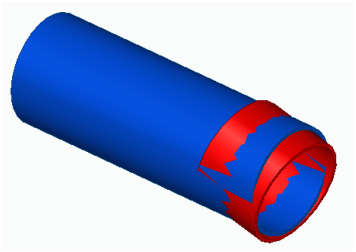
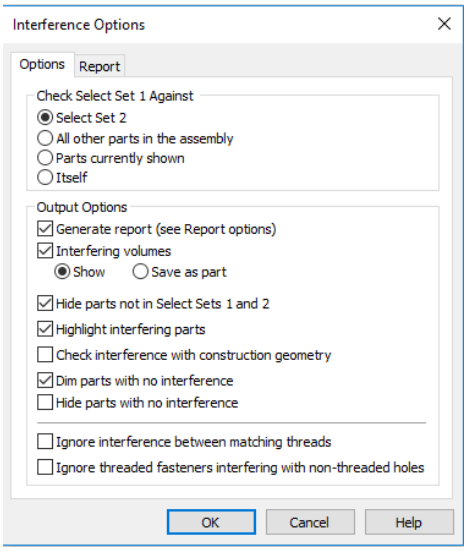
Finding an intersecting volume

This Tech Tip looks at how to find the overlapping geometry of two parts.

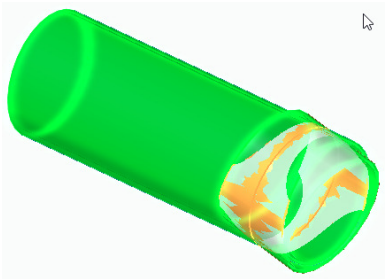


It can sometimes be useful to find where two or more parts intersect and more to actually see the intersecting volume. In a situation such as this, it is obvious that there is an interference, but there are times when it is not so apparent.

On the Inspect Tab in assembly, you will find the Check interference command, that allows you to check whether one part/set of parts intersect another.



Looking at the command options, you will see that you need to select one or more parts for select set 1 and then these are compared to select set 2 – which can be a new set of selected parts, all other part in the assembly, parts currently show or itself. In this case, select set 1 will be the blue pipe and select set will be the red. The resulting output is displayed to show that interference does exist.



A further option here is to change the output options from "Show" to "Save as part" and when you process the command, a new part file is created from the interfering volume that can be used in a boolean operation to clear away any interference.