

### **How can I exclude multiple subgroups of data at the same time?**

New to WinSPC version 8.2 is the ability to exclude a range of subgroups from calculations from within the Variable Analyzer window. Conversely a range of subgroups, that has been excluded, can be un-excluded. This is a quick and easy way to exclude subgroup data from statistical calculations with a few clicks of the mouse.

Log in to WinSPC as the Admin user or a user that has Administration permissions to the Variable Analyzer. In the Administrator window, expand the Parts/Processes node in the Tree pane, and locate the Variable. Right-Click on the variable and select Query, to open the Variable Analyzer window.

**Exclude...** To exclude a range of subgroups from statistical calculations (Figure 1), use the following steps:

Right-click and hold inside the chart area from within the Variable Analyzer window.  
Drag to the right, selecting the subgroups to be excluded. Release the mouse button.  
Select **Exclude...** to remove the selected subgroups from statistical calculations. Exclude subgroups will be denoted by a red diamond with a black "X" marker above the subgroup.

#### **NOTE:**

Excluded subgroup markers only appear if the variable is in its Default Subgrouping State. A Default Subgrouping State button has been added, which automatically returns a variable's data to its default subgrouping state. When the Default Subgrouping button is activated (icon will have a blue background, depending on display settings), the variable is in its default subgrouping state. Whenever a change is made which has the potential to cause a variable's data to leave its default subgrouping state, the button is deactivated (icon will have a gray background, depending on display settings).

**Unexclude...** To unexclude (include) a range of subgroups for statistical calculations (Figure 1), use the following steps:

Right-click and hold inside the chart area from within the Variable Analyzer window.  
Drag to the right, selecting the subgroups to be un-excluded. Release the mouse button.  
Select **Unexclude...** to include the selected subgroups for statistical calculations and removing the exclude marker.

**Exclude or Un-exclude using the Ctrl key to define a X-axis & Y-axis selection, use the following steps:**

Press and hold the Ctrl key down on the keyboard.  
Right-click and hold inside the chart.  
Drag to the right, selecting the area to be Excluded/Un-excluded and release the mouse button and Ctrl key..  
From the popup menu, select **Exclude...** or **Unexclude...**

**Exclude or Un-exclude a single subgroup of data, use the following steps:**

Left-click on the subgroup to be excluded/un-excluded inside the chart area from within the Variable Analyzer window (or from the Data Collection screen).

In the Data Point Viewer (see Figure 2), Left-click the checkbox to place or remove the check mark in Exclude from calculations checkbox near the bottom center of the window. A check mark in the checkbox will exclude the subgroup data from statistical calculations, and no check mark (unchecked) will include the subgroup data for statistical calculations.

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