

Converting C to F when looking at tolerance

A mistake that is common in the conversion of C to F when you look at tolerance is the fact that the conversion is not the same conversion for measured temperature.

1°C is equal to 1.8°F. Both have a different starting point, which is why when using the measured conversion formula of $T(^{\circ}\text{F}) = T(^{\circ}\text{C}) \times 9/5 + 32$ you are adding or subtracting 32 in the process.

When looking at tolerance you should stick to the ratio of C to F or 1:1.8

For example, $\pm 15^{\circ}\text{C}$ is equal to $15 \times 1.8 = 27^{\circ}\text{F}$. if we were looking at measured temperature we would be looking at. $15^{\circ}\text{C} \times 9/5 + 32 = 59 \text{ F}$.

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