## 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.
$1^{\circ} \mathrm{C}$ is equal to $1.8^{\circ} \mathrm{F}$. Both have a different starting point, which is why when using the measured conversion formula of $T\left({ }^{\circ} \mathrm{F}\right)=T\left({ }^{\circ} \mathrm{C}\right) \times 9 / 5+32$ 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, $\pm 15^{\circ} \mathrm{C}$ is equal to $15 \times 1.8=27^{\circ} \mathrm{F}$. if we were looking at measured temperature we would be looking at. $15^{\circ} \mathrm{C} \times 9 / 5+32=59 \mathrm{~F}$.

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