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 $T(°F) = T(°C) \times 9/5 + 32$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, ±15°C is equal to 15 x 1.8 = 27°F. if we were looking at measured temperature we would be looking at. 15°C × 9/5 +32 =59 F.

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