

**ANSYS Workbench Class3 Error Report****ERROR NO:**

WB2013-04

**Keywords:**

SHIFT FUNCTION                      ENGINEERING DATA                      MECHANICAL  
TEMPERATURE UNITS

**Description of Error:**

If the Reference Temperature input unit for the Shift Function (WLF, TN, and TNF) material model is selected to be  $\text{Å}^\circ\text{K}$  or  $\text{Å}^\circ\text{R}$  (via Reference Units (Temperature)), it is interpreted in the solver as having units of  $\text{Å}^\circ\text{C}$  or  $\text{Å}^\circ\text{F}$ . A Mechanical solution, with the MAPDL solver, will convert the reference temperature to an absolute temperature (TOFFST) rather than using the user input. This will result in incorrect material model calculations.

**Typical GUI Path(s):**

Engineering Data

**Other Comments:****First Incorrect Version:**

Release 14.0

**Corrected In:**

Release 15.0

**Suggested User Action For Running on Uncorrected Version:**

For a Reference Unit (Temperature) of  $\hat{\text{A}}^\circ\text{K}$   
enter the Reference Temperature value in  $\hat{\text{A}}^\circ\text{C}$ , and for  $\hat{\text{A}}^\circ\text{R}$   
enter the value in  $\hat{\text{A}}^\circ\text{F}$ .

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