

Trouble Shooting Guide		Ceramic Fiber Insulation Cautions	
Lindberg Blue M Furnaces			May 23, 2014

The following are our recommendations to generally avoid these of chemicals coming in contact with Ceramic Fiber Insulation.

1. Strong fluxing agents, such as alkali (sodium, potassium), zinc, boria, vanadium, and iron oxide to name a few.
2. Reducing conditions (oxygen depletion) environments. Example would be high concentrations of Hydrogen at low dew point above 1040 C would attack the insulation.
3. Fluorine and chlorine (above 650C for chlorine)
4. Phosphates above 500C
5. Hydrofluoric and phosphoric acids
6. Strong bases, sodium hydroxide in particular
7. Sulfates, chlorides, fluorides

The most difficult to answer is the amount or concentration of the above chemicals required to seriously degrade the insulation. It will be different for each chemical to predict the result without knowing the conditions and concentrations the insulation is exposed to.

Hope this helps. Let me know if I can be of further help.