

KCBraun
5-21-47

Preheater Outlet Temperatures
(Report to Scholven, Gelsenkirchen - Buer.)
Ludwigshafen, 20 May 1941

We are presently evaluating your preheater. However, we are sending you herewith corrected preheater temperatures taken by you, since they may be of importance to you. You may see from the attached table:

- 1) The preheater outlet temperature of the coal converters as well as the 6434 converters is practically zero, i.e. the element is very well insulated and can be used as a true indicator.
- 2) On the contrary, your 7019 stall has a correction of + 13° C, i.e. the indicated temperature of your element 44 is 13° C too low. On the given date (7.5.41), therefore, you are actually heating to 494° C, whereas element 44 shows only 481° C.

From this we conclude:

- a) The heat supplied to the product in the preheater is actually considerably greater than you had assumed before, so that the actual efficiency is, therefore, also greater, and the heat supplied to the preheater can now be actually determined.
- b) Since it was intended that the converter inlet temperature should equal the preheater outlet temperature of only 485° C, the load on the preheater is considerably greater than originally planned. A good part of your preheater difficulties are due to this circumstance.

