

### Conclusions

Most of the samples seem to have been processed at the designated temperatures and fully inserted into the furnace, indicating that it is unlikely that there was a temperature gradient along the diffusion couple while it was molten. However, the following tubes had differences between their endcap and neck oxide colours which exceeded the set criteria: 1, 2, 3, 4, 10, 24, and 48; the experimental results from the diffusion couples they contained should be of particular concern. Sample 18 was processed at full insertion but 150-200°C below the program temperature, and samples 13, 14, 16, and 49 do not appear to have been processed at all.