

## OPTION CHECKLIST NO. 10: FURNACES & REFRACTORIES

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| <ul style="list-style-type: none"><li>• Check against infiltration of air: Use doors or air curtains.</li></ul>                         |
| <ul style="list-style-type: none"><li>• Monitor O<sub>2</sub> /CO<sub>2</sub>/CO and control excess air to the optimum level.</li></ul> |
| <ul style="list-style-type: none"><li>• Improve burner design, combustion control and instrumentation.</li></ul>                        |
| <ul style="list-style-type: none"><li>• Ensure that the furnace combustion chamber is under slight positive pressure.</li></ul>         |
| <ul style="list-style-type: none"><li>• Use ceramic fibres in the case of batch operations.</li></ul>                                   |
| <ul style="list-style-type: none"><li>• Match the load to the furnace capacity.</li></ul>                                               |
| <ul style="list-style-type: none"><li>• Retrofit with heat recovery device.</li></ul>                                                   |
| <ul style="list-style-type: none"><li>• Investigate cycle times and reduce.</li></ul>                                                   |
| <ul style="list-style-type: none"><li>• Provide temperature controllers.</li></ul>                                                      |
| <ul style="list-style-type: none"><li>• Ensure that flame does not touch the stock.</li></ul>                                           |

方案列表 10: 窑炉和耐火材料

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| • 检查空气渗透：利用窑门和空气帘。                                        |
| • 监控O <sub>2</sub> /CO <sub>2</sub> /CO含量，将多余的空气控制在适宜的程度。 |
| • 改进燃烧室设计、燃烧控制和仪器使用。                                      |
| • 确保窑炉燃烧室处在微小的正压下。                                        |
| • 在配料作用中使用碳酸盐纤维。                                          |
| • 使窑炉负荷与其设计荷载匹配。                                          |
| • 改进余热回收装置。                                               |
| • 调查并缩短循环时间。                                              |
| • 安装温度控制器。                                                |
| • 确保火焰不会触及炉料。                                             |