

Drying and Firing of Refractories



Course Outline

Lecture 1 – 2/6/24 drying / binder removal

Lecture 2 – 2/8/24 solid state sintering

Lecture 3 – 2/13/24 solid state sintering

Lecture 4 – 2/15/24 liquid phase sintering

Lecture 5 – 2/20/24 liquid phase sintering

Lecture 6 – 2/22/24 sintering variables

Lecture 7 – 2/27/24 grain growth

Lecture 8 – 2/29/24 phase transformations

Lecture 9 – 3/5/24 alumina-silica

Lecture 10 – 3/7/24 basic

Lecture 11 – 3/12/24 zircon and zirconia

Lecture 12 – 3/14/24 fused cast

Lecture 13 – 3/19/24 non-oxide

Lecture 14 – 3/21/24 composite

Lecture 15 – 3/26/24 monolithic