

11th Biennial Congress of the Iranian Ceramic Society

The 2nd International Conference on Ceramics

High temperature firing technologies for advanced materials - technical ceramics

Hartmut Weber

Riedhammer GmbH is the leading manufacturer of kiln plants worldwide. Besides our traditional business areas, like refractories, table and sanitary ware, we also offer new and innovative technologies for advanced ceramics such as powder metals, foam glass (wet and dry technology), electronics and battery powders.

But the focus is on the debinding or binder burnout process of modern advanced ceramic products like honeycomb structures and filter ceramics, where 25% or more of the green body must be binders, plasticizers and other organic additives. The removal process of binders has become the rate-limiting step for advanced ceramic production and can still be one of the largest sources of losses in the production process. The advantages LOW-O₂-PROCESS, developed by RIEDHAMMER, can perform the binder burnout safely, uniform and in a fraction of the time required by conventional methods.

The paper shall give an overview of periodic and continuous thermal kiln process applications.



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