

## Metallurgical - Annular Heating Furnace



The annular quenching furnace operates continuously, using mixed gas as fuel. Burners are staggeredly arranged on both inner and outer ring walls. The normal furnace temperature ranges from 1000 to 1100°C, with a weakly reductive atmosphere and slightly positive pressure operation.



Advantages of CCEWOOL Refractory Fiber Materials in Annular Furnaces:

Low bulk density: The weight of the folded module furnace lining is only 20% of that of lightweight heat-resistant linings.

**Low heat capacity:** The heat capacity of refractory fibers is 1/9th that of lightweight heat-resistant linings, reducing heat storage loss in the furnace lining.

**Low thermal conductivity:** The heat transfer rate of refractory fibers is 1/7th that of lightweight clay bricks and 1/9th that of lightweight heat-resistant linings, significantly improving the thermal insulation effect of the furnace lining.

**Good thermal sensitivity:** Better suited to the automated control of heating furnaces.

### **High-efficiency and energy-saving design solution for ring heat**



The structure of furnace top lining

It adopts a layered-module composite lining structure with CCEWOOL 1260 ceramic fiber blankets for the back lining and CCEWOOL1430 zirconium-containing ceramic fiber modules for the hot surface. The ceramic fiber modules are arranged like "a battalion of soldiers", and the interlayer compensation blanket uses

CCEWOOL1430 zirconium-containing ceramic fiber blanket, fixed by U-shaped heat-resistant steel nails.

### **The structure of furnace top lining**

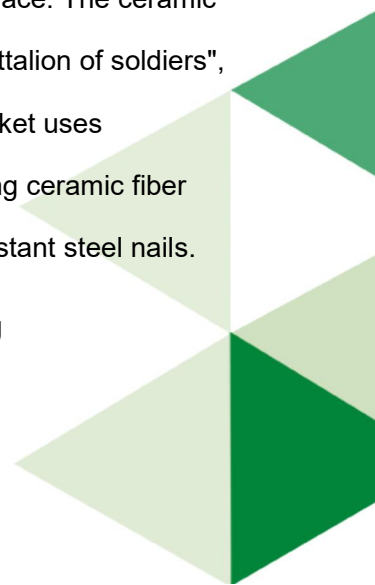


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