

# Oceanite

Periclase Boiler Mix



**RESCO**<sup>®</sup>  
PRODUCTS, INC.

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## Periclase Boiler Mix

### Frozen Slag Problem

Boiler refractory linings are subject to fluxing caused by the action of non-combustible impurities present in most fuels. This results in the formation of slag. At operating temperatures, the slag is molten and as much as ten inches may accumulate over the boiler hearth during one year of service, depending on the type of boiler, fuel and operating schedules. At room temperature the slag freezes into a solid mass intimately bonded to the sub-hearth. As a result, it is necessary to use pneumatic hammers to remove the slag before worn linings can be replaced. This increases repair time at least 40 man hours per boiler and often delays boiler availability from six to ten hours.

### Need for Special Refractory

To solve this problem a highly refractory material for boiler floor surfaces is needed that will absorb slag as it is produced and which, when cool, will crumble easily for quick removal.

### OCEANITE Background

OCEANITE was developed for this purpose. It is a highly porous, granular lining material whose open pores absorb slag while retaining its heat resistant properties. Its coarse sizing helps it stay in place (no fines to blow away by high velocity gases). It is produced by firing in a rotary kiln above 3200° F. and will not soften even at much higher temperatures. As a result, OCEANITE grains do not fuse in the boiler. This allows the slag to be absorbed. When cooled, slag-laden OCEANITE is easily removed from the boiler with a hand rake.

OCEANITE was given a substantial trial in a variety of marine and stationary boilers before it was released for general use. Since then a great many leading companies have installed, and now specify, OCEANITE when repairing or rebuilding their boilers.

Founded in 1946, Resco has served its markets with specialized products ever since, initially, with the refining industry and later in the steel industry. Innovations have been key to Resco's long success, including AA-22 and the original patent on semi-universal ladle brick.

Recent acquisitions have diversified Resco into many new refractory markets. The addition of National's product lines allows Resco to offer a comprehensive range of products, and dolomite products are available since the Worldwide acquisition was completed.

One Robinson Plaza  
6600 Steubenville Pike #300  
Pittsburgh, PA 15205

888-283-5505  
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