

V Sealing Solutions

Airtight Gaskets

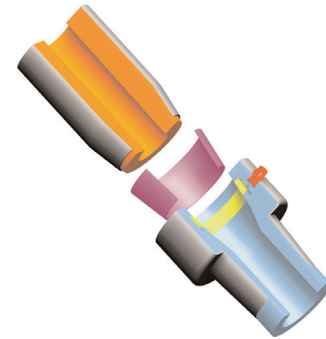
The connection between two refractory components in a casting channel is sensitive because of the possibility of air ingress resulting in steel oxidation and nitrogen pick-up with consequent steel quality downgrading.

To minimize the air suction between the refractory components, a suitable Vesuvius gasket can be designed. In addition to the cushioning effect between mating surfaces of a fibre gasket, our Sealbind™ gasket material creates an effective air tight solution for appropriate applications.

Gasket types

Vesuvius has a wide range of gasket materials to suit different customer needs and operating practices

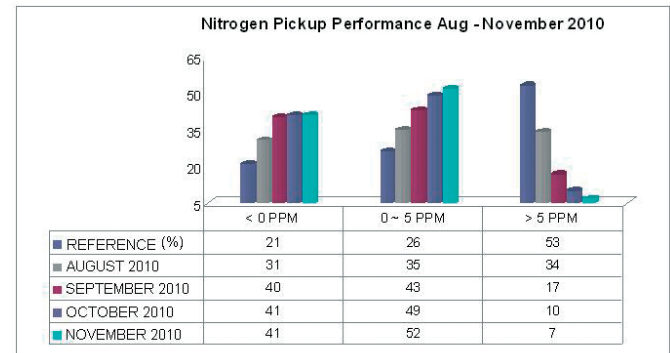
- Sealbind™ gasket - Standard
 - flexible ceramic material which absorbs surface irregularities
- Sealbind™ gasket - Expanding
 - gasket material expands with elevating temperatures, improving the seal in use
 - ideal for preheat subentry shroud applications
- Ceramic Fibre (including highly soluble)
 - cut fibre
 - vacuum formed impregnated



Vesuvius gaskets can be manufactured to the required dimensions to fit all ladle and subentry shroud applications.

Gasket sealing leads to:

1. reduced nitrogen pick-up
2. improved steel cleanliness by preventing the formation of inclusions due to reoxidation
3. reduced incidences of nozzle blockage due to re-oxidation and alumina formation
4. reduced damage to collector nozzles
5. better sealing of re-used ladle shrouds, due to the flexibility of the gasket.



Significant improvement using the Sealbind™ gasket solution versus reference fibre on twin strand slab caster

Metal Tight Gaskets

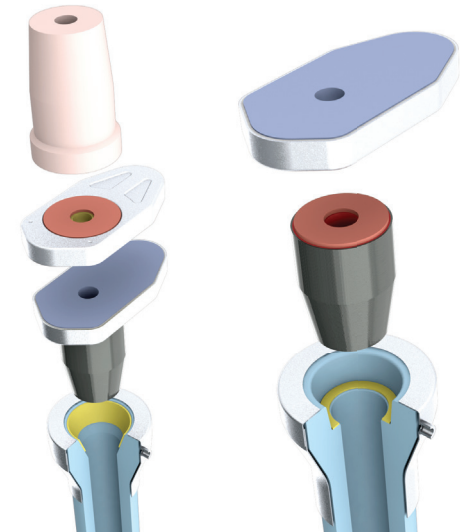
This type of material has been specifically designed for areas where metal or steel penetration is highly undesirable. These most critical areas are generally within the ladle sliding or rotary gate system typically between the stationary plate and the lower nozzle or between the sliding plate and the collector nozzle.



The benefits of using a Sealbind™ gasket for these applications are:

- It is ultra safe, the material is highly resistant to metal penetration.
- Using a pre-made gasket removes the variability associated with the manual application of either cement/mastic.
- The gasket is exactly the correct dimension for the specific application thus avoiding excessive wastage.
- The gasket is both simple and easy to apply.
- The composition of the material makes removal easy after use.

Vesuvius is able to produce this material in a variety of sizes and thicknesses to suit the specific application.



Sealbind™ gasket ladle gate application

Application of Metal Tight Seals



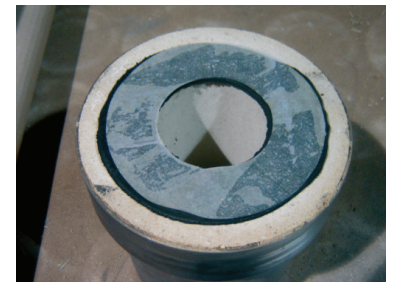
Remove foil from individual seal



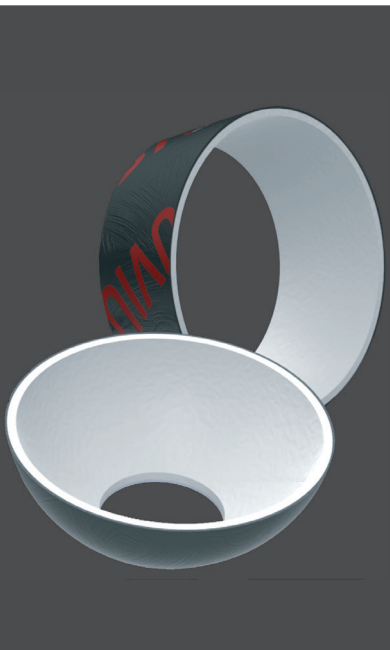
Apply seal «wet side first» onto spigot



Gentle press seal to ensure cohesion



Collector nozzle with gasket in position ready to install in ladle gate



For more information on this product and on our complete package of solutions please contact our local service center :

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