

# Graphite Casting Rings

MMEI Graphite Casting Rings are engineered to meet the strict rigors of the billet casting environment. We have developed a complete range of designs to retrofit the molds of most casting tables on the market. Rings are available in sizes up to 24" in diameter.

Each ring is precision machined from a special isotatically molded graphite. This material was developed with specific properties required for the casting application. The porosity and permeability of this special graphite are very high and uniform. This creates a ring with a uniform flow rate of air or oil around the ring's circumference, ensuring a high quality surface finish on the billets over many castings. While other graphite materials may have high porosity, it is the combination with high permeability which makes possible the uniform flow rates. Additional benefits include reduced clogging and improved service life of the rings. This fine grain material also has high strength and excellent resistance to thermal shock.

MMEI graphite casting rings are available in a variety of designs to retrofit most molds. Each is machined to tight tolerances to ensure a precise fit in your mold everytime. Various end coatings as required by the mold type are also available.

MMEI also offers transition plates to go with the graphite casting ring, making it easy for you to find everything you need from one vendor. Contact us today for more information or for a quotation on your requirements.



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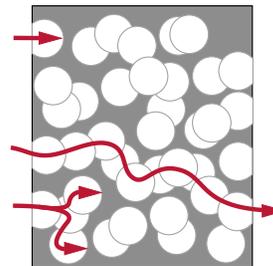


Figure 1. Good Porosity but Poor Permeability.

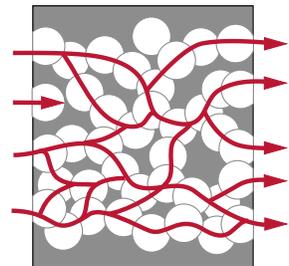


Figure 2. Good Porosity and Good Permeability.

### **Good Porosity And Good Permeability.**

The above diagrams demonstrate the difference between good porosity and good permeability. Permeability is the measure of how well a fluid flows through the material. It is dependent on how well connected the pores are to allow the fluid to pass through it. As demonstrated above, both examples have the same number and size of pores. However, the examples on the right has better permeability due to the alignment of the pores to form passageways to allow the fluid to pass through the material. MMEI's Graphite Casting Rings use a specially developed material with excellent porosity and permeability for superior performance.