

HIGH TEMPERATURE DIE CASTING APPARATUS AND METHOD THEREFOR

ABSTRACT

5 A high temperature die casting system includes a die casting tool that has dies
that are adapted for forming a component. The die casting tool is operable to heat and
maintain a temperature of the dies above 500°F/260°C. At least a portion of the die
casting tool that is exposed for contact with molten die casting material has a substrate
and barrier coating on the substrate to protect from the molten die casting material.

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Figure 1