

NLB Ceramic Investment Casting Cleaning

Ceramic investment casting cleaning is a common problem solved by an NLB high-pressure water jet cleaning system. The process begins when a mold for a metallic product is made from wax. The wax mold is then dipped in a ceramic material, which forms a hard outer shell on the wax mold. Next, the wax is removed prior to hot, liquid metal or alloy being poured into the ceramic shell. After cooling, a cast metal product with a ceramic coating is left.

Before the process can be completed, the ceramic must be removed from the metal. The ceramic coating is then removed through the use of an NLB Model 10100E electric high-pressure water jetting unit rated for 15 gpm (57 lpm) at pressures from 8,000 to 10,000 psi (552 to 700 bar) using a zero-degree carbide nozzle. The molded parts are sometimes cleaned on a conveyor system, which passes the parts through an NLB SPIN JET[®]. The ceramic may also be removed by use of a hand lance.



Ceramic investment casting before and after cleaning.

The Leader in High-Pressure Water Jet Technology