

## ***ArmaKleen Technical Service Report Summary***

**Cleaning Trial Type:** Aqueous

**Industry:** Plastic manufacturing

**Segment:** 23 MFG – Electrical Equipment & Computers

**Soil:** Shop dirt, oil, baked on carbon

**Substrate:** Steel and brass

**Description of Part(s):** Steel and brass molds

**Customer objective:** The customer was looking to improve their cleaning performance, automate their cleaning process, reduce rework and reject rate and eliminate hazardous chemicals and waste.

**Cleaner used:** 5% by volume ArmaKleen™ 4 in 1 Cleaner

**Machine used:** Ultrasonic Washer (SK6315 Blackstone model 3523)

**Temperature used:** 160°F

**Time required:** 2 to 4 hours

**Post Cleaning:** Fresh water rinse followed by air pressure drying.

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 5% by volume ArmaKleen™ 4 in 1 Cleaner at 160°F in an Ultrasonic Washer for a minimum of 2 to 4 hours.

**Before Picture**



**After Picture**



**Source:** TSR #13-A-042