

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

**Cleaning Trial Type:** Aqueous

**Industry:** Paper manufacturing

**Segment:** 28 – Manufacturing – Machine including Medical

**Soil:** Oil, glue/adhesive, grime, cutting fluids, silicone, grease

**Substrate:** Stainless steel, steel, rubber, aluminum

**Description of Part(s):** Housing units

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

**Cleaner used:**

- 5% by volume ArmaKleen™ 4 in 1 Cleaner
- 10% by volume ArmaKleen™ 4 in 1 Cleaner

**Machine used:**

1. Spray Washer (JRI FL250, JRI FL500, JRI TL3, Better Engineering G-2000)
2. Ultrasonic Washer (Blackstone SK 6315)

**Temperature used:** 160°F

**Time required:** 1 to 2 hours

**Post Cleaning:** Fresh water rinse followed by air pressure drying. Several areas were brushed with a nylon bristle brush during the fresh water rinse.

**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 hours.

**Before Picture**



**After Picture**



**Source:** TSR #15-A-223