

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

**Cleaning Trial Type:** Aqueous

**Industry:** Food Manufacturer

**Segment:** 26 Fabricated Metal Products

**Soil:** Oil, grime, peanut husks and peanut oil

**Substrate:** Steel

**Description of Part(s):** 15.5" - 16.5" steel tubes

**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  
10% by volume ArmaKleen™ M-301

**Machine used:** Spray Washer (TL3, FL250, FL500)  
Agitating Immersion Washer (81.8, T12, T24)

**Temperature used:** 160°F

**Time required:** 8 hours

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

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 10% by volume ArmaKleen™ M-301 at 160°F in an Agitating Immersion Washer for a minimum of 8 hours.

**Before Picture**



**After Picture**



**Source:** TSR #13-A-005