ArmaKleen Technical Service Report Summary

Cleaning Trial Type: Aqueous

Industry: Manufacturing

Segment: 26 Fabricated Metal Products

Soil: Oil, cutting fluids and steel metal chips

Substrate: Steel

Description of Part(s): Steel nozzles

Customer objective: The customer is looking to improve their cleaning performance, automate their cleaning process and reduce rework and reject rate. The customer was asking for a two step process.

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

Machine used: Ultrasonic Washer (SK 6315 Blackstone Model 3523) followed by an Agitating Immersion

Washer (81.8)

Temperature used: 160°F

Time required: 1. Ultrasonic Washer 10 minutes, Agitated Immersion Washer 5 minutes

2. Ultrasonic Washer 8 minutes, Agitated Immersion Washer 7 minutes

3. Ultrasonic Washer 5 minutes, Agitated Immersion Washer 5 minutes

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

Recommendation to Customer: The ArmaKleen Technical Center recommended using 5% by volume ArmaKleenTM 4 in 1 Cleaner in an Ultrasonic Washer followed by using 5% by volume ArmaKleenTM 4 in 1 Cleaner in an Agitated Immersion Washer both at 160° F for a total cleaning time of 10-15 minutes minimum.

Before Picture After Picture





Source: TSR #12-A-252