ArmaKleen Technical Service Report Summary

Cleaning Trial Type: Aqueous

Industry: Piping OEM Manufacturing

Segment: 26 Fabricated Metal Products

Soil: Oil, cutting fluids, drawing lube and grease

Substrate: Low grade stainless steel

Description of Part(s): Stainless Steel Pipe

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

Cleaner used:

1. 5% ArmaKleen™ 4 in 1Cleaner

- 2. 10% ArmaKleen™ MM-Dip
- 3. 10% ArmaKleen™ M-HP-2

Machine used:

1. Agitating Immersion Washer (81.8)

2. Spray Washer (TL3, FL250, FL500)

Temperature used: 160°F

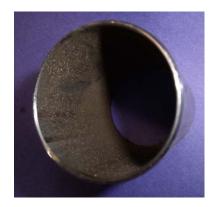
Time required: 1 Minute

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

Recommendation to Customer: The ArmaKleen Technical Center recommended the following;

- 1. 5% by volume ArmaKleen™ 4 in 1 Cleaner In either an Agitating Immersion Washer or a Spray Washer at 160 °F for a minimum of 1 minute.
- 2. 10% by volume ArmaKleen™ MM-Dip in an Agitating Immersion Washer at 160°F for a minimum of 1 minute.
- 3. 10% by volume ArmaKleen™ M-HP-2 in a Spray Washer at 160°F for a minimum of 1 minute.

Before Picture



After Picture



Source: TSR #12-A-249