

# Techniclean S 5001 Eliminates Weld Porosity

## METALS MANUFACTURING (USA)

Stainless Steel Tube Mill

Castrol Techniclean® S 5001

**Residue Issues Eliminated**



### THE SITUATION

A specialty stainless steel tube manufacturer was having issues with a cleaner used to wash the stainless steel strip before the tube forming operations. The cleaner was leaving a residue that was causing porosity in welding and staining the tube surface.

### BEFORE

- Porosity in welds
- Residue on tube surface
- Staining to tube surface
- Competitive cleaner contained silicates and phosphates

### AFTER

- Eliminated porosity in welds
- No residue on tube surface
- No staining to tube surface
- No silicates or phosphates that can cause issues with welding

### THE SOLUTION

- Techniclean S 5001 does not contain any silicates or phosphates.
- Silicates and phosphates can cause porosity in welding tubular products.
- Residues can also be caused from silicates and phosphates.
- Techniclean S 5001 cleans very well to remove oil residue from the stainless steel strip being used in this tube mill.
- Tramp oils are easily skimmed from the Techniclean S 5001 to allow the cleaner to work for long periods of time.

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## RECOMMENDATIONS

Techniclean S 5001 when used at 3 - 4% concentration will clean light to medium oils from part surfaces. The residue left behind is compatible with most secondary operations. This in-process cleaning operation is very critical to producing a quality end product, and the Techniclean S 5001 meets those demands.

## CONCLUSION

Techniclean S 5001 meets the demands for producing a clean surface for secondary operations without leaving a residue that could cause issues. Proper cleaner selection to the operation is critical in producing quality parts.

**Techniclean S 5001 eliminated weld porosity, staining, and residues.**



## Tube mill operation at this facility



**“I had confidence that working with Castrol we could fix our weld porosity issues. They have the best expertise in the industry to develop solutions to issues.”**

**– Plant Engineer**

## OTHER POTENTIAL APPLICATIONS

Techniclean S 5001 is an excellent process cleaner for many different uses. The low residue is compatible with secondary operations, making it suitable for a variety of applications.

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