

# SURFOX™ 305 Weld Cleaning System

*The SURFOX 305 electrochemical weld cleaning system is a highly effective method of removing heat tint in the heat affected zone of welded stainless steel (TIG, Spot and MIG), without altering the surface of the parent material. It also promotes the formation of a uniform and durable chromium oxide passive layer to protect stainless steel against further corrosion. SURFOX is a safer, faster and more cost effective alternative to very hazardous pickling pastes and abrasive weld cleaning processes like wire brushing and grinding.*

## The most powerful unit for a wide variety of jobs

SURFOX 305 is an industrial, self-contained weld cleaning system with an integrated electrolyte solution tank, a low level indicator and an automatic dispensing pump. A variable speed pump (manual or automatic) delivers the desired amount of electrolyte solution continuously to the work piece.

This system is equipped with a self-regulating inverter board, automatically monitoring and adjusting the current so as to ensure maximum cleaning effectiveness without loss of productivity and without micro-pitting.



**Please read the Surfox user manual before using the unit. It can be found on [walter.com](http://walter.com)**

**Be careful when assembling the wand. Always clean & neutralize the connectors on the machine and on the wand with FT-100 or Surfox-N.**

**The wand should only be removed for replacement purposes. Frequent assembling and disassembling of the wand can lead to poor or faulty connections.**

### Process

- Set the machine to manual pumping or automatic feed level 1 (TIG) or level 2 (MIG)
- Put the wand setting to the tungsten insert, brush or large graphite insert setting (under the large wand group of settings) depending on the cleaning accessory you will use.
- Put the power to AC Level1. If needed go to AC Level 2. AC Level 3 setting should always be used with the fume elimination system to avoid overheating the cleaning accessory.
- Ground the workpiece
- Fill up the machine with the Surfox electrolyte solution.
- Turn on the machine
- Press the ON button (top button on the large wand)
- If it is the first time, purge the machine for at least 3 minutes to get rid of the testing solution.
- Once the weld or the surface is cleaned, push the off button (lower button on the large wand) then use a rag to remove the excess of electrolyte solution. You could also rinse with water that contains less than 200 ppm.
- Apply Surfox-N or FT-100 everywhere the electrolyte solution has been.
- Use a different rag to remove the Surfox-N or FT-100. You could also rinse with water that contains less than 200 ppm.
- **Wait 48 hours to make sure the passive film is formed prior applying a protector like Surfox Shine or wrapping for shipping.**

SDS available upon request or on our website at [walter.com](http://walter.com)

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