# SURFOX™ 205 Weld Cleaning System

*The SURFOX™ electrochemical weld cleaning system is a highly effective method of removing heat tint in the heat affected zone of TIG, MIG (aluminum only), and spot welded stainless steel and aluminum, 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 versatile unit for a wide variety of jobs

SURFOX 205 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. The machine is also capable of marking and etching on aluminum, stainless steel, and titanium surfaces.

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.

**Process**

- Set the machine to manual pumping or automatic feed level 1 (TIG) or level 2 (MIG)
- Put the wand setting to the large wand setting under ALU or Stainless depending on the type of material you are working with.
- Put the power to AC LEVEL 2. If needed go to AC LEVEL 3 which has the most power. AC LEVEL 1 can be used on thin gauge metal when overheating could be an issue.
- 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 everywhere the electrolyte solution has been.
- Use a different rag to remove the Surfox-N. 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 or wrapping for shipping.**

SDS available upon request or on our web site at www.walter.com

Walter Surface Technologies Inc.
810 Day Hill Rd, Windsor, CT 06095, United States
Tel: 1-866-592-5837 / Fax 1-860-298-1112

June 2017