

# SURFOX™ 304 Weld Cleaning System

The SURFOX 304 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 304 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 2 self-regulating inverter boards, automatically monitoring and adjusting the current so as to ensure maximum cleaning effectiveness without loss of productivity and without micro-pitting.



### Features & benefits:

- Compatible with all SURFOX electrolyte cleaning solutions
- Uses nitric and hydrofluoric acid free SURFOX electrolyte solutions
- The cleaning liquid is delivered automatically to the cleaning tip or brush by an integrated pump system – without spills, just the right amount and without stopping the cleaning action
- Cleaning a typical MIG weld at a speed of 3 ft/minute and TIG weld at 5 ft/minute, with no scrubbing or mechanical action required
- Instant cleaning of heat tint on welds
- Wand with on/off pump cycling controls
- Electrical outlet for optional marking/etching hand piece
- Switchable output: AC mode (cleaning & marking) and DC mode (polishing & etching)
- Variable device output knob, allowing the end user to select the desired cleaning tip or brush
- Built in vapour elimination system, useful when working in confined areas
- Permanent marking on stainless steel surfaces
- **The use of SURFOX systems is a recognized method for achieving Chemical Passivation on Stainless Steel Parts, as defined by the ASTM A967-05 specification**

Description	Electrical		Dimensions			Tank Capacity	Length of hose	Weight	Order No.
	Input	Output	Length	Width	Height				
SURFOX machine Model 304*	120 V, 50/60 Hz, 8.0 A	12-30 V AC/DC 30 A max	20.67"	9.84"	14.57"	64.2 oz	13'	48.5 lbs (22 kg)	54-D 314

\*Standard equipment includes: 1 x Tungsten insert (48-R 133), 3 x high conductivity standard cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x SURFOX 304 wide carbon fiber brush (54-B 115), 1 x wand holder accessory (54-B 114), 1 x SURFOX 304 narrow carbon fiber brush (54-B 116), 1 x adaptor for SURFOX 304 brush (54-B 099), 1 x ground cable (48-R 136), 1 x user guide, 1 x DVD, 1 x carrying case

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

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## ACCESSORIES

### *SURFOX solutions*

SURFOX-T Heavy-Duty solution, 100ml	54-A 001
SURFOX-T Heavy-Duty solution, 1.5L	54-A 005
SURFOX-T Heavy-Duty solution, 5L	54-A 006
SURFOX-T Heavy-Duty solution, 20L	54-A 007
SURFOX-T Heavy-Duty solution, 208L	54-A 008
SURFOX-G Neutral pH solution, 100ml	54-A 061
SURFOX-G Neutral pH solution, 1.5L	54-A 065
SURFOX-G Neutral pH solution, 5L	54-A 066
SURFOX-G Neutral pH solution, 20L	54-A 067
SURFOX-G Neutral pH solution, 208L	54-A 068
SURFOX-N Cleaning & Neutralizing solution, 500ml	54-A 023
SURFOX-N Cleaning & Neutralizing solution, 5L	54-A 026
SURFOX-N Cleaning & Neutralizing solution, 20L	54-A 027
SURFOX-N Cleaning & Neutralizing solution, 208L	54-A 028

### *Cleaning pads*

Standard high conductivity cleaning pads	54-B 026 (pack of 10)
Inside corners high conductivity cleaning pads	54-B 027 (pack of 10)
Narrow high conductivity cleaning pads	54-B 028 (pack of 10)
Large cleaning pad for graphite insert	54-B 052 (pack of 5)
Large high conductivity pads for graphite insert	54-B 043 (pack of 10)
Narrow clamp ring for narrow pads	54-B 020
Clamp ring for cleaning pads	54-B 002

### *Brushes*

Wide Carbon fiber brush for SURFOX 304	54-B 115 (pack of 5)
Carbon fiber brush for SURFOX 304	54-B 116 (pack of 5)
Spare brush adaptor for SURFOX 304	54-B 099

### *Micro-wand kit*

Micro-wand and tungsten insert kit	54-B 033
Micro-wand and brush kit	54-B 133
Carbon fiber micro-brush	54-B 117
Brush adaptor for micro-wand	54-B 100

### *Cleaning boots*

High conductivity cleaning boot for inside corner 90°	54-B 055 (pack of 10)
High conductivity narrow Cleaning boot 90°	54-B 057 (pack of 10)

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### *Tungsten and graphite inserts*

Tungsten standard 90°	48-R 133
Tungsten standard 60°	54-B 016
Tungsten narrow 90°	54-B 017
Tungsten narrow 60°	54-B 018
Inserts kit (includes all 4 tungsten inserts)	54-B 012
Large graphite	54-B 009

### *Testers*

Stainless Steel Grade ID tester	54-T 001
Passivation tester	54-T 010
Surfox Smart Passivation tester	54-T 011

### *Marking kits*

Standard kit	54-B 080
PRO kit with stencil printer	54-B 081

### *Station*

SURFOX station	54-B 050
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### *Power Cloth*

Surfox Power Cloth	54-B 090
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### *Surfox Cleaners*

SURFOX Pre-Weld, 500 ml	54-A 073
SURFOX Pre-Weld, 5 L	54-A 076
SURFOX Pre-Weld, 20 L	54-A 077
SURFOX Pre-Weld, 208 L	54-A 078
SURFOX Shine, 500 ml	54-A 093
SURFOX Shine, 3.78 L	54-A 095
SURFOX Shine, 20 L	54-A 097
SURFOX Shine, 208 L	54-A 098
SURFOX Renew, 500 ml	54-A 083
SURFOX Renew, 3.78 L	54-A 085
SURFOX Renew, 20 L	54-A 087
SURFOX Renew, 208 L	54-A 088