

# THE FASTEST, EASIEST, AND SAFEST WAY TO CLEAN STAINLESS STEEL WELDS



## SURFOX™ WELD CLEANING SYSTEMS

 **WALTER**  
Achieve Greatness™



## Safer & More Effective

- ▷ SURFOX™ cleaning electrolytes are NSF registered to be used in food plants.
- ▷ VOC-free, and pose no health hazards for operators.
- ▷ No respiratory PPE is required.
- ▷ All systems are third-party verified to meet ASTM standards and guarantee passivation of pieces.



## Easier To Use

- ▷ SURFOX™ is the only system to offer an integrated reservoir and dispensing pump that automatically deliver the cleaning electrolyte to ensure no interruption in the cleaning process.
- ▷ Dynamic Flow technology ensures the right amount of cleaning solution is released upon contact (SURFOX™ 206 & 306).
- ▷ The lineup features light and portable, yet powerful units (TURBO, MINI, MAX) designed for fieldwork and onsite jobs.
- ▷ The new generation also features LCD panels with multi-language display and more precise functionalities for a seamless weld cleaning process.



## Faster

- ▷ All SURFOX™ units feature increased cleaning output to ensure even faster, uniform cleaning and passivation.
- ▷ The SURFOX™ 306 and SURFOX™ MAX also include dual-user functionality so two users can clean welds using the same SURFOX™ system.



## Why Is Passivation Important?

Stainless steel can resist corrosion thanks to a passive chromium oxide layer that forms on its surface. The formation of this protective layer is called passivation.

Passivation occurs when the chromium contained in the stainless steel meets the oxygen in the air. This chemical reaction forms a passive chromium oxide layer, which will protect the surface of stainless steel.

Mechanical abrasion, thermal treatment, welding, salt, strong acids, and galvanic contamination will destroy this protective layer and expose the metal to corrosion. To fully restore the corrosion resistance of stainless steel and avoid any interference in the passivation process, the heat tint as well as other surface contaminants must be removed.

# DISCOVER SURFOX™ WELD CLEANING

The SURFOX™ electrochemical weld cleaning system is the most effective method for removing heat tint from welded stainless steel (TIG, Spot, Stick, and MIG), without altering the surface of the parent material.

Check out the SURFOX™ Welding System in action



## Which SURFOX™ Unit Is Right for Your Application?

Usage	Fieldwork			Heavy-Duty/Industrial Use	
Process	Weld Cleaning	Cleaning, Marking, Etching	Cleaning, Marking, Etching	Cleaning, Marking, Etching	
					
	SURFOX™ TURBO	SURFOX™ MINI	SURFOX™ MAX	SURFOX™ 206	SURFOX™ 306
Application	<ul style="list-style-type: none"> <li>Cleans TIG and Spot welds and light MIG welds.</li> </ul>	<ul style="list-style-type: none"> <li>Cleans TIG, SPOT and light MIG welds.</li> <li>Excellent for repairs, touch-ups and small jobs.</li> </ul>	<ul style="list-style-type: none"> <li>Stick, MIG, TIG and Spot welds.</li> <li>Heavy-duty weld cleaning.</li> <li>More than one user.</li> </ul>	<ul style="list-style-type: none"> <li>Cleans TIG, Spot and MIG welds.</li> </ul>	<ul style="list-style-type: none"> <li>Stick, MIG, TIG and Spot welds.</li> <li>Heavy-duty cleaning.</li> <li>More than one user.</li> </ul>
Features	<ul style="list-style-type: none"> <li>Powerful and compact.</li> <li>Dip &amp; work weld cleaning.</li> <li>Simple to use.</li> <li>AC only (cleaning).</li> </ul>	<ul style="list-style-type: none"> <li>Uses refillable cartridges; compatible with dip &amp; work wand.</li> <li>AC/DC option for marking and etching.</li> <li>LCD panel with multi-language and precise functionalities.</li> </ul>	<ul style="list-style-type: none"> <li>Dual-user capabilities.</li> <li>Dip &amp; work weld cleaning.</li> <li>LCD panel with multi-language and precise functionalities.</li> <li>Portable for field work.</li> <li>AC/DC option for marking and etching.</li> <li>Most versatile unit in the industry.</li> </ul>	<ul style="list-style-type: none"> <li>Built-in fume elimination system (requires a compressed air line).</li> <li>AC/DC option for marking and etching.</li> <li>Integrated reservoir with Dynamic Flow for precise liquid dispersion.</li> <li>LCD panel with multi-language and precise functionalities.</li> </ul>	<ul style="list-style-type: none"> <li>Built-in fume elimination system (requires a compressed air line).</li> <li>AC/DC option for marking and etching.</li> <li>Integrated reservoir with Dynamic Flow for precise liquid dispersion.</li> <li>LCD panel with multi-language and precise functionalities.</li> <li>Dual-user capabilities.</li> <li>Most powerful unit in its class.</li> </ul>
Marking & Etching	N/A	Stainless steel, aluminum, titanium	Stainless steel, aluminum, titanium	Stainless steel, aluminum, titanium	Stainless steel, aluminum, titanium



# HEAVY-DUTY/INDUSTRIAL USE

## SURFOX™ 306

The most powerful heavy-duty production unit

The SURFOX™ 306 is the most powerful electrochemical weld cleaning unit on the market and WALTER's most powerful production unit when it comes to cleaning and passivating stainless steel welds. The 306 can clean Spot, TIG and even the dirtiest of MIG and Stick welds. This unit is equipped with a flow-through tank and Dynamic Flow, a new feature that ensures the right amount of weld cleaning liquid is dispersed to the work piece as soon as contact is established. This unit also includes a port for dip & work weld cleaning, which allows two users to work using the same SURFOX™ machine.



### Features and benefits

- ▷ 2550 Watts of maximum cleaning output
- ▷ Includes dual-user functionality so two users can work with the same machine
- ▷ LCD panel with multi-language settings and more precise settings
- ▷ Threaded brush system to easily change out accessories and reduce downtime
- ▷ Ability to clean larger and hard-to-reach areas thanks to a variety of compatible accessories
- ▷ Flow-through reduces the risk of contaminating or spilling the electrolyte solution
- ▷ Dynamic Flow ensures the right amount of liquid is dispersed to the work piece
- ▷ Marking and etching capabilities
- ▷ Built-in fume dispersion system

Model	Order No.	Electrical		Dimensions			Dual User	Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height				
306	54-D 316	120 V - 50/60 Hz, 10 A	3-30V AC/DC 85 A Max	19"	10"	15"	Y	64.2 oz	20'	47 lbs

**Each unit comes with:** 1 x SURFOX™ 306 carbon fiber brush (54-B 606), 1 x adaptor for SURFOX™ 305 brush (54-B 149), 1 x ground cable, 1 x user guide, 1 x carrying case, 1 x 10mm key

## SURFOX™ 206

Durable production unit for everyday use

The SURFOX™ 206 packs a serious punch when it comes to cleaning output and it is the most powerful unit in its segment. This unit cleans Spot, TIG and MIG welds on stainless steel. The 206 is equipped with a flow-through tank with Dynamic Flow to the wand.



### Features and benefits

- ▷ 1500 Watts of maximum cleaning output
- ▷ LCD panel with multi-language settings and more precise settings
- ▷ Marking and etching capabilities
- ▷ Flow-through tank reduces risk of contaminating or spilling the electrolyte solution
- ▷ Dynamic Flow ensures the right amount of liquid is dispersed to the work piece

Model	Order No.	Electrical		Dimensions			Dual User	Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height				
206	54-D 216	120 V - 50/60 Hz, 5.5 A	3-30V AC/DC 50A Max	19"	10"	15"	N	64.2 oz	13'	44 lbs

**Each unit comes with:** 1 x carbon fiber brush (54-B 601), 1 x brush adaptor (54-B 149) 1 x ground cable, 1 x user guide, 1 x carrying case

# SURFOX™ MAX

Lightweight and ultra powerful; the most versatile unit in the industry

The SURFOX™ MAX is the industry's most versatile weld cleaning unit. It is powerful enough to tackle Spot, TIG, MIG and even STICK welds on stainless steel, and is the lightest heavy-production unit on the market, making it ideal for tough fieldwork and heavy-duty industrial use. This unit is equipped with two dip & work ports, so two users can be cleaning welds using the same machine to maximize efficiency.



## Features and benefits

- ▷ 2550 Watts of maximum cleaning output
- ▷ Includes dual-user capabilities so two users can work with the same machine
- ▷ LCD panel with multi-language settings and more precise settings
- ▷ Dip & work weld cleaning
- ▷ Marking and etching
- ▷ Lightweight and portable

Model	Order No.	Electrical		Dimensions			Dual User	Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height				
MAX	54-D 096	120 V, 50/60 Hz, 10.0 A	3-30V AC/DC 85 A Max	16"	6"	11"	Y	-----	11'	22 lbs

**Each unit comes with:** 1 x D&W carbon fiber brush (54-B 604), 1x D&W brush sleeve (54-B 605) 1 x brush adaptor (54-B 149) 1 x ground cable, 1 x user guide, 1 x carrying case

# FIELDWORK

## SURFOX™ MINI

The ideal unit for field or repair work

Ultra-light and portable, the SURFOX™ MINI is designed for weld cleaning, marking, and etching in the field. It is the most powerful fieldwork unit with marking and etching functionality and cleans Spot, TIG and light MIG welds with ease.



## Features and benefits

- ▷ 900 Watts of maximum cleaning output
- ▷ Comes with the SURFOX™ cartridge wand
- ▷ Can be used with the SURFOX™ dip & work wand kit
- ▷ Marking and etching
- ▷ Weighs only 16 lbs

Model	Order No.	Electrical		Dimensions			Dual User	Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height				
MINI	54-D 076	120 V - 50/60 Hz, 5.5 A	3-30V AC/DC, 30A Max	16"	6"	11"	N	-----	-----	16 lbs

**Each unit comes with:** 1 micro-wand, 1 x micro-wand holder (48-R 286), 1 x micro wand holder extension sleeve (48-R 460), 1 x carbon fiber brush (54-B 601), 1 x adaptor for micro-brush (54-B 150), 1 x ground cable , 1 x user guide, 1 x carrying case

# SURFOX™ TURBO

Powerful, compact, and reliable; our most lightweight unit

The SURFOX™ TURBO is the easiest model to operate, on top of being the most lightweight and portable one, designed for quick weld cleaning and repair jobs in the field. Ideal for cleaning TIG, Spot and light MIG welds on stainless steel, this unit delivers hassle-free, quick weld cleaning and passivation.

### Features and benefits

- ▷ Powerful and compact
- ▷ Dip & work weld cleaning
- ▷ Simple to use
- ▷ Weld cleaning unit only
- ▷ Lightweight and portable



Model	Order No.	Electrical		Dimensions			Dual User	Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height				
TURBO	54-D 066	120 V - 50/60 Hz, 4 A	12V AC, 25A MAX	12"	5"	9"	N	-----	-----	15 lbs

**Each unit comes with:** 1 x SURFOX™ D&W carbon fiber brush (54-B 601) 1 x D&W brush sleeve (54-B 603), 1 x adaptor for micro-brush (54-B 150), 1 x ground cable 1 x user guide, 1 x carrying case

# WIDE SURFACE DIP & WORK KIT

Clean larger surfaces, faster

The wide-surface dip & work wand kit is designed to tackle larger, high surfaces. This kit includes a 300mm/12" insert with handles in addition to a telescopic lance for areas that are out of reach.

Order no. 54-B 611



# DIP & WORK WAND KIT

Speed and versatility, when you need it most

The dip & work wand kit is your go-to SURFOX™ accessory to make quick work from repair and touch-up jobs, or when two workers are leveraging the same SURFOX™ weld cleaning unit to get the job done. This kit is an add-on accessory and is compatible with the SURFOX™ 306, and MINI and comes standard with the SURFOX™ MAX and the SURFOX™ TURBO.

Order no. 54-B 610

Includes wand, cable and support stand.



# SURFOX™ SOLUTIONS

## SURFOX-G™

pH neutral electrolyte solution

Specially designed for use in water treatment facilities.

NSF category A3, registration #146974

**Great for cleaning TIG and Spot welds on stainless steel**

- ▷ pH neutral, non acidic
- ▷ Safe alternative to pickling paste and strong acids
- ▷ Non-corrosive
- ▷ Compatible with all SURFOX™ machines
- ▷ Lower environmental impact
- ▷ Third-party certified to meet ASTM A967 standards for passivation



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 061	S-10E	6
Sprayer	500ml	16.9 oz	54-A 063	S-10E	12
Liquid	1.5 L	51 oz	54-A 065	S-10E	1
Liquid	5 L	1.3 gal	54-A 066	S-10E	1
Liquid	20 L	5.2 gal	54-A 067	S-10E	1
Liquid	208 L	55 gal	54-A 068	S-10E	1

Color: Translucent

## SURFOX-T™

Heavy-duty formula

Provides faster cleaning action and more thorough cleaning on MIG and STICK welds.

NSF category A3, registration #142984

**Stronger solution to clean even the dirtiest of MIG and TIG welds on stainless steel**

- ▷ Safe alternative to pickling paste and strong acids
- ▷ SCAQMD-compliant
- ▷ Third-party certified to meet ASTM A967 standards for passivation
- ▷ Best solution for stainless steel polishing with your SURFOX™ unit



**Tech tip!**

Use with SURFOX-T drum pump 54-B 106



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 001	S-01E	6
Sprayer	500 ml	16.9 oz	54-A 003	S-01E	12
Liquid	1.5 L	51 oz	54-A 005	S-01E	1
Liquid	5 L	1.3 gal	54-A 006	S-01E	1
Liquid	20 L	5.2 gal	54-A 007	S-01E	1
Liquid	208 L	55 gal	54-A 008	S-01E	1

Color: Translucent

## SURFOX-N™

Cleaning and neutralizing formula

NSF category A1, registration #142985

- ▷ Must be used to neutralize SURFOX™ electrolyte solutions
- ▷ SCAQMD-compliant
- ▷ Prevents the formation of salt deposits (hazy white discoloration) around welds cleaned with SURFOX™
- ▷ Third-party certified to meet ASTM A967 standards for passivation



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 023	S-03E	12
Liquid	3.78 L	1 gal	54-A 025	S-03E	1
Liquid	20 L	5.2 gal	54-A 027	S-03E	1
Liquid	208 L	55 gal	54-A 028	S-03E	1

Color: Translucent

# SURFOX™ CONSUMABLES & ACCESSORIES

SURFOX™ accessories are specially designed to handle the toughest weld cleaning and electropolishing applications. Depending on your application you can choose from a variety of sizes of pad cleaning options or carbon fiber brushes.

SKU	Product	Description	SURFOX™ 306	SURFOX™ 206	SURFOX™ MAX	SURFOX™ TURBO	SURFOX™ MINI
54-B 143		Tungsten insert 90°	✓	✓	✓		✓*
54-B 026		Standard cleaning pad	✓	✓	✓		✓*
54-B 002		Clamp ring for cleaning pad, 10-pack	✓	✓	✓		✓*
54-B 009		Large graphite insert, 45mm	✓	✓	✓		✓*
54-B 043		Large pad for large graphite insert with O-ring, 10-pack	✓	✓	✓		✓*
54-B 180		O-ring for insert	✓	✓	✓		✓*
54-B 038		Narrow tungsten insert					✓
54-B 028		Narrow cleaning pad with clamp ring, 10-pack					✓
54-B 020		Narrow clamp ring for narrow pad, 10-pack					✓
54-B 150		Spare brush adaptor for micro-wand					✓
54-B 149		Reusable brush adaptor for large wand	✓	✓	✓	✓	✓*
54-B 048		Large graphite insert for micro-wand					✓

SKU	Product	Description	SURFOX™ 306	SURFOX™ 206	SURFOX™ MAX	SURFOX™ TURBO	SURFOX™ MINI
54-B 618		Brush Extraction Tool	✓*		✓	✓	✓*
54-B 619		D&W Dual Ground			✓		
54-B 051		Large pad for large graphite insert with O-ring, 10-pack					✓
54-B 092		Cartridge refilling pump					✓
54-B 601		Threaded round brush		✓			✓
54-B 602		Dip & work (D&W) brush w/o sleeve, 5-pack				✓	✓*
54-B 603		Dip & work (D&W) sleeve				✓	✓*
54-B 604		Dip & work (D&W) brush w/o sleeve, 5-pack	✓		✓		
54-B 605		Dip & work (D&W) sleeve	✓		✓		
54-B 606		Threaded round brush, 5-pack	✓				
54-B 607		Graphite insert, 100mm/4"	✓	✓	✓		
54-B 608		Pad for graphite insert, 100mm/4"	✓	✓	✓		
54-B 609		O-ring for graphite insert, 100mm/4"	✓	✓	✓		
54-B 614		Dip & work (D&W) wide insert, 300mm/12"	✓		✓		
54-B 615		Pad for wide insert, 300mm/12"	✓		✓		

\* Dip & Work applications only.

# GO AHEAD, MAKE YOUR MARK!

SURFOX™ Marking & Etching Kits make company logos, part numbers, serial numbers, lots and batch numbers, QR codes and more, easy to achieve thanks to its fast and simple electrochemical process.

*Ask your territory manager about our full lineup and full SKU listing.*



Watch how SURFOX™ marking works here



## MARKING KITS

**Standard Marking Kit**  
Order No: 54-B 080



- Ideal for repetitive marking (company logo)
- Requires permanent stencils available from WALTER, each can be used hundreds of times

**PRO Marking Kit**  
Order No: 54-B 081



- Ideal for diverse marking (part numbers, QR codes, bar codes)
- Printer included to create disposable stencils

## SURFOX™ PASSIVATION TESTER

Quickly and easily guarantee passivated stainless steel!

The SURFOX™ Passivation Tester is a simple, compact and portable testing device that allows you to quickly and easily ensure passivation of stainless steel anywhere, anytime – even on job sites!



- Minimizes costly downtime caused by the rework of pieces
- Provides an instant reading to verify the quality of the protective layer

Order No: 54-T 012



# MARKING KIT ACCESSORIES

For marking stainless steel and titanium

**SURFOX-M**  
marking solution  
100 ml squeeze bottle  
NSF category P1,  
registration #146175  
Order No.: 54-A 031

Also available in 5 L format  
Order No.: 54-A 036



For marking aluminum

**SURFOX-M ALU**  
electrolyte solution  
100 ml squeeze bottle  
Order No.: 54-A 131



For etching stainless steel

**SURFOX-E**  
etching solution  
100 ml squeeze bottle  
Order No.: 54-A 041



**Marking pads**  
Pack of 20  
Order No.: 54-B 083



**Power cable**  
Order No.: 54-B 063



**Graphite marking insert**  
Order No.: 54-B 088



**O-rings**  
Pack of 5  
Order No.: 54-B 089

**Marking wand**  
Order No.: 54-B 082



**Stencil paper roll**  
100 mm x 20 m  
Order No.: 54-B 086  
100 mm x 50 m  
Order No.: 54-B 087



# SURFOX™ PRE-CLEANING AND SHINE

## SURFOX™ PRE-WELD

Fast-drying surface cleaner

Formulated for preparing and degreasing metal surfaces prior to welding.

### Benefits

- ▷ Reduced VOC content when compared to solvent-based surface cleaners
- ▷ Ready-to-use formula

### Features

- ▷ Replacement for surface preparation solvents such as acetone



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 073	S-13E	12
Liquid	3.78 L	1 gal	54-A 076	S-13E	1
Liquid	20 L	5.2 gal	54-A 077	S-13E	1
Liquid	208 L	55 gal	54-A 078	S-13E	1

Color: Orange

## SURFOX™ RENEW

High-strength stainless steel cleaner

Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. Removes contaminants without attacking the parent material. Must be neutralized with SURFOX-N after use.

### Benefits

- ▷ Gel formulation allows the product to cling to inclined surfaces
- ▷ VOC-free, solvent-free, non-flammable, biodegradable surfactants
- ▷ Removes rust, oxidation, mineral deposits and light grease

### Features

- ▷ Concentrated formula – can be diluted up to 1:40 with water
- ▷ Ideal for cleaning of food-processing and pharmaceutical equipment



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 083	S-11E	12
Liquid	3.78 L	1 gal	54-A 085	S-11E	1
Liquid	20 L	5.2 gal	54-A 087	S-11E	1
Liquid	208 L	55 gal	54-A 088	S-11E	1

Color: Light orange

## SURFOX™ SHINE

Cleaner and protector for stainless steel

An innovative, non-hazardous product that removes light contaminants from stainless steel in one easy step.

NSF category A7, C1, registration # 152509



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 093	S-12E	12
Liquid	3.78 L	1 gal	54-A 095	S-12E	1
Liquid	20 L	5.2 gal	54-A 097	S-12E	1
Liquid	208 L	55 gal	54-A 098	S-12E	1

Color: White

### Benefits

- ▷ Removes dust, dirt, finger prints, oils and handling marks
- ▷ Leaves a uniform finish without streaking
- ▷ Brightens and protects stainless steel surfaces
- ▷ Not controlled under WHMIS or OSHA

### Features

- ▷ Ready-to-use formula
- ▷ Silicone-free, VOC-free, solvent-free, non-flammable, phosphate-free, biodegradable
- ▷ For cleaning of food-processing and pharmaceutical equipment



## WALTER Surface Technologies

### Canada

#### Montreal

5977 Trans Canada Highway  
Pointe-Claire, Quebec  
H9R 1C1  
Tel.: 514 630-2800  
Toll free: 1 800 363-7368  
Fax: 514 630-2825

#### Toronto

151 Superior Blvd., Unit 12  
Mississauga, Ontario  
L5T 2L1  
Tel.: 905 795-8555  
Toll free: 1 888 821-9444  
Fax: 905 795-8558

#### Edmonton

18527 – 104 Avenue NW  
Edmonton, Alberta  
T5S 2V8  
Tel.: 780 451-2053  
Toll free: 1 866 435-1271  
Fax: 780 453-1589

#### Vancouver

1-1595 Cliveden Ave. West,  
Delta, British Columbia  
V3M 6M2  
Tel.: 604 540-4777  
Toll free: 1 877 366-9258  
Fax: 604 540-4778  
Fax toll free: 1 877 329-9258

### United States

#### Connecticut

810 Day Hill Road  
Windsor, CT 06095  
Phone: 1 860-298-1100  
Email: info.us@walter.com

#### Texas

710 Gateway Blvd.  
Suite 110  
Coppell, TX 75019

**FOR MORE INFORMATION,  
TO SCHEDULE  
A FREE DEMO OR TO ORDER**

Phone: 888 592-5837

Fax: 866 581-1121

Email: [csr@walter.com](mailto:csr@walter.com)

Or visit: [walter.com](http://walter.com)

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