

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 (SURFOX™ 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	Cleans TIG and Spot welds and light MIG welds.	- Cleans TIG, SPOT and light MIG welds. - Excellent for repairs, touch-ups and small jobs.	- Stick, MIG, TIG and Spot welds. - Heavy-duty weld cleaning. - More than one user.	Cleans TIG, Spot and MIG welds.	- Stick, MIG, TIG and Spot welds. - Heavy-duty cleaning. - More than one user.
Features	- Powerful and compact. - Dip & work weld cleaning. - Simple to use. - AC only (cleaning).	- Uses refillable cartridges; compatible with dip & work wand. - AC/DC option for marking and etching. - LCD panel with multi-language and precise functionalities.	- Dual-user capabilities. - Dip & work weld cleaning. - LCD panel with multi-language and precise functionalities. - Portable for field work. - AC/DC option for marking and etching. - Most versatile unit in the industry.	- Built-in fume elimination system (requires a compressed air line). - AC/DC option for marking and etching. - Integrated reservoir with Dynamic Flow for precise liquid dispersion. - LCD panel with multi-language and precise functionalities.	- Built-in fume elimination system (requires a compressed air line). - AC/DC option for marking and etching. - Integrated reservoir with Dynamic Flow for precise liquid dispersion. - LCD panel with multi-language and precise functionalities. - Dual-user capabilities. - Most powerful unit in its class.
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	54D316	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 (54B606), 1 x Brush adaptor (54B149), 1 x ground cable (48R136), 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	54D216	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 (54B601), 1 x brush adaptor (54B149) 1 x ground cable (48R136), 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	54D096	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 (54B604), 1x D&W brush sleeve (54B605) 1 x brush adaptor (54B149) 1 x ground cable (48R136), 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	54D076	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 x carbon fiber brush (54B601), 1 x adaptor for micro-brush (54B150), 1 x Ground Cable (48R136), 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	Lenght of hose	Weight
		Input	Output	Length	Width	Height				
TURBO	54D066	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 (54B602) 1 x D&W brush sleeve (54B603), 1 x brush adaptor (54B149), 1 x ground cable (48R136), 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. *Only one cable, picture show the possible assembly.

Order no. 54B611



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. 54B610

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	54A061	S-10E	6
Sprayer	500ml	16.9 oz	54A063	S-10E	12
Liquid	1.5 L	51 oz	54A065	S-10E	1
Liquid	5 L	1.3 gal	54A066	S-10E	1
Liquid	20 L	5.2 gal	54A067	S-10E	1
Liquid	208 L	55 gal	54A068	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 54B106



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54A001	S-01E	6
Sprayer	500 ml	16.9 oz	54A003	S-01E	12
Liquid	1.5 L	51 oz	54A005	S-01E	1
Liquid	5 L	1.3 gal	54A006	S-01E	1
Liquid	20 L	5.2 gal	54A007	S-01E	1
Liquid	208 L	55 gal	54A008	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	54A023	S-03E	12
Liquid	3.78 L	1 gal	54A025	S-03E	1
Liquid	20 L	5.2 gal	54A027	S-03E	1
Liquid	208 L	55 gal	54A028	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
54B143		Tungsten insert 90°	✓	✓	✓		✓*
54B026		Standard cleaning pad	✓	✓	✓		✓*
54B002		Clamp ring for cleaning pad, 10-pack	✓	✓	✓		✓*
54B009		Large graphite insert, 45mm	✓	✓	✓		✓*
54B043		Large pad for large graphite insert with O-ring, 10-pack	✓	✓	✓		✓*
54B180		O-ring for insert	✓	✓	✓		✓*
54B038		Narrow tungsten insert					✓
54B028		Narrow cleaning pad with clamp ring, 10-pack					✓
54B020		Narrow clamp ring for narrow pad, 10-pack					✓
54B150		Spare brush adaptor for micro-wand					✓
54B149		Reusable brush adaptor for large wand	✓	✓	✓	✓	✓*
54B048		Large graphite insert for micro-wand					✓
48R294		Electrolyte straw	✓	✓	✓	✓	✓

*Dip & Work applications only

SKU	Product	Description	SURFOX™ 306	SURFOX™ 206	SURFOX™ MAX	SURFOX™ TURBO	SURFOX™ MINI
54B051		Large pad for large graphite insert with O-ring, 10-pack					✓
54B092		Cartridge refilling pump					✓
54B601		Threaded round brush		✓			✓
54B602		Dip & work (D&W) brush w/o sleeve, 5-pack				✓	✓*
54B603		Dip & work (D&W) sleeve				✓	✓*
54B604		Dip & work (D&W) brush w/o sleeve, 5-pack	✓		✓		
54B605		Dip & work (D&W) sleeve	✓		✓		
54B606		Threaded round brush, 5-pack	✓				
54B607		Graphite insert, 100mm/4"	✓	✓	✓		
54B608		Pad for graphite insert, 100mm/4"	✓	✓	✓		
54B609		O-ring for graphite insert, 100mm/4"	✓	✓	✓		
54B614		Dip & work (D&W) wide insert, 300mm/12"	✓		✓		
54B615		Pad for wide insert, 300mm/12"	✓		✓		
54B618		Brush extraction	✓		✓	✓	✓
54B619		SURFOX™ D&W Dual Ground			✓		

*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: 54B080



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

PRO Marking Kit
Order No: 54B081



- 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: 54T012

Accessories

Replacement Cartridge
White Felt Tip 5/pk

Order No:

54A050
54B046



MARKING KIT ACCESSORIES

For marking stainless steel and titanium

SURFOX-M™
marking solution
100 ml squeeze bottle
NSF category P1,
registration #146175
Order No.: 54A031

Also available in 5 L format
Order No.: 54A036



For marking aluminum

SURFOX-M™ ALU
electrolyte solution
100 ml squeeze bottle
Order No.: 54A131



For etching stainless steel

SURFOX-E™
etching solution
100 ml squeeze bottle
Order No.: 54A041



Marking pads
Pack of 20
Order No.: 54B083



Power cable
Order No.: 54B063



Graphite marking insert
Order No.: 54B088



O-rings
Pack of 5
Order No.: 54B089

Marking wand
Order No.: 54B082



Stencil paper roll
100 mm x 20 m
Order No.: 54B086
100 mm x 50 m
Order No.: 54B087



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	54A073	S-13E	12
Liquid	3.78 L	1 gal	54A076	S-13E	1
Liquid	20 L	5.2 gal	54A077	S-13E	1
Liquid	208 L	55 gal	54A078	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	54A083	S-11E	12
Liquid	3.78 L	1 gal	54A085	S-11E	1
Liquid	20 L	5.2 gal	54A087	S-11E	1
Liquid	208 L	55 gal	54A088	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	54A093	S-12E	12
Liquid	3.78 L	1 gal	54A095	S-12E	1
Liquid	20 L	5.2 gal	54A097	S-12E	1
Liquid	208 L	55 gal	54A098	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



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