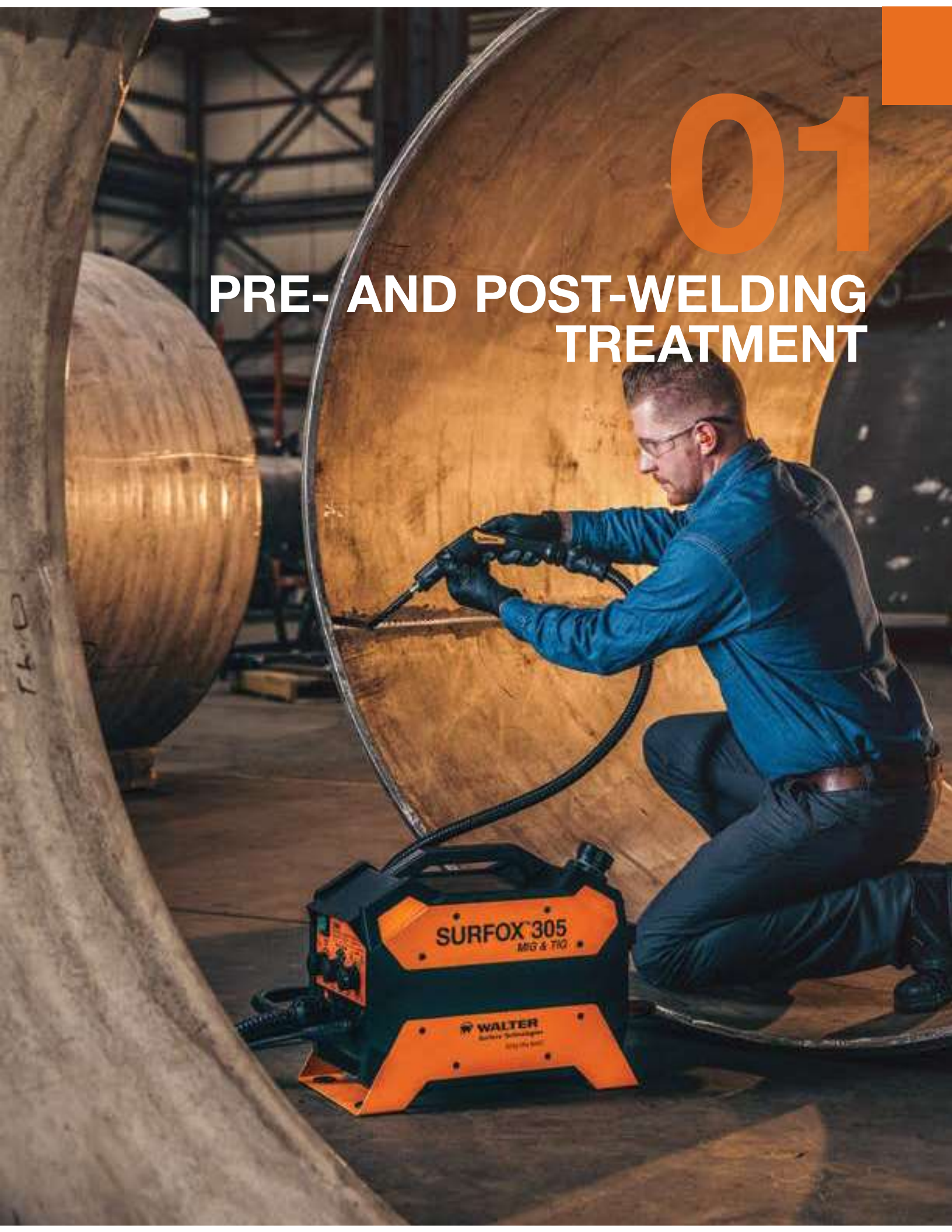


01

# PRE- AND POST-WELDING TREATMENT



# SURFOX WELD CLEANING



**VISIT SURFOX.COM**  
to register your SURFOX SYSTEM  
and get 6 months extended warranty

*The use of SURFOX systems is a recognized method for achieving Chemical Passivation on Stainless Steel Parts, as defined by the ASTM 967-05 specification.*

## Electrochemical Weld Cleaning Systems for Stainless Steel and Aluminum

The SURFOX electrochemical weld cleaning system is a highly effective method for removing heat tint from welded stainless steel and aluminum (TIG, spot and MIG), without altering the surface of the parent material. SURFOX promotes the formation of a uniform and durable chromium oxide passive layer to protect stainless steel against corrosion.

### Features and benefits









- ▶ **Safer:** SURFOX cleaning electrolytes are NSF registered and authorized for use in food plants
- ▶ **Faster:** Uniform cleaning and passivation at a rate of 3 to 5 feet per minute
- ▶ **Easy:** Pour your SURFOX electrolyte into the reservoir and start cleaning

### Passivation

*Why is passivation important?*

Stainless steel is naturally able to resist corrosion thanks to a passive chromium oxide layer that forms on its surface. The formation of this protective layer is called passivation. Abrasion or excessive heat (caused by welding) will destroy this protective layer and expose the metal to corrosion. In order to fully restore the corrosion resistance of stainless steel, heat tint and other surface contaminants must be removed. SURFOX is a safe, effective and fast electrochemical cleaning system. The rate of cleaning welds with this system is between 3-5 feet per minute. The SURFOX system combines both the cleaning power of electrical current and the passivation properties of electrolyte cleaning solutions. Passivation begins instantly after the SURFOX electrochemical cleaning process is completed. It usually takes between 24 to 48 hours for passivation to be stable and complete.

## How to choose a SURFOX system

Material	Welding process	Work environment	Application	System
 <b>Stainless Steel or Aluminum</b>	MIG and TIG	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 305</b> 
 <b>Stainless Steel or Aluminum</b>	TIG (only)	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 205</b> 
 <b>Stainless Steel or Aluminum</b>	TIG (only)	Portable	Cleaning, electro polishing, marking and etching	<b>SURFOX Mini</b> 
 <b>Stainless Steel or Aluminum</b>	MIG and TIG	Production and portable	Electrochemical cleaning	<b>SURFOX Turbo</b> 

# SURFOX™ 305 MIG & TIG

The industry's safest and fastest MIG & TIG weld cleaning system

The SURFOX™ 305 is our patented electrochemical weld cleaning system for stainless steel and aluminum. It quickly and easily removes heat tint from the heat-affected zone of MIG, TIG and spot welds, cleaning the surface and allowing passivation on stainless steel to begin without altering the surface finish. The integrated tank and flow-through system ensures the electrolyte solution is delivered directly to the workpiece, minimizing the potential for spillage or cross-contamination. The dynamic current control also ensures that the electrical current will not cause micropitting on the surface.



## Features and benefits

- ▷ Easily cleans MIG welds, TIG & spot welds
- ▷ Exclusive quick-change brush system to easily change out accessories and reduce downtime
- ▷ Ability to clean larger and hard to reach areas with our new brushes
- ▷ Integrated reservoir reduces the potential for contaminating or spilling the electrolyte solution
- ▷ AC mode for cleaning or marking
- ▷ DC mode for polishing or etching
- ▷ Built-in vapor dispersion system

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
305	54-D 315	120 V, 50/60 Hz, 8.0 A	12-30 V AC/DC, 30 A max	18.50"	9.75"	15"	64.2 oz	13'	44 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x SURFOX 305 wide carbon fiber brush (54-B 155), 1 x SURFOX 305 narrow carbon fiber brush (54-B 156), 1 x adaptor for SURFOX 305 brush (54-B 149), 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 305 ACCESSORIES

Recommended for cleaning MIG welds



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Wide carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 155

Recommended for cleaning TIG welds



**Tungsten insert 90°**  
Order No.: 54-B 143

**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Replacement wand assemblies

4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

Recommended for tight corners



**Reusable brush adaptor for large wand**  
N° de comm.: 54-B 149

**Carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 156

Recommended for renewing large surfaces



**Large graphite insert**  
45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

**Large pad for graphite insert**  
5 per package  
Order No.: 54-B 052



## SURFOX™ 205

For TIG and spot welds on stainless steel and aluminum

This industrial weld cleaning system features extensive safety and productivity features to minimize consumable use and provide economical cleaning and passivation of stainless steel TIG & spot welds. The SURFOX™ 205 has been engineered to clean MIG, TIG and spot welds on aluminum, and with the use of special marking kits (sold separately), it can also mark stainless steel, aluminum and titanium surfaces. This is a durable production model designed for every day use.



### Features and benefits

- ▷ *Built-in fume elimination system (requires a compressed air line)*
- ▷ *Switchable output:*
  - *AC Mode: cleaning & marking*
  - *DC Mode: polishing & etching*
- ▷ *Redesigned pump and tank for maximum efficiency*
- ▷ *New Quick-Connect system allows you to quickly change between 4 m and 9 m long wand assemblies (9 m wand sold separately)*

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
205	54-D 215	120 V, 50/60 Hz, 4.0 A	12-30V AC/DC, 15A max	18 1/2"	9 3/4"	15"	64.2 oz	13'	41 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x carbon fiber brush (54-B 158), 1 x brush adaptor (54-B 149) 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 205 ACCESSORIES

Recommended for cleaning TIG welds



**Tungsten insert 90°**  
Order No.: 54-B 143

**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 143 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Recommended for renewing large surfaces



**Large graphite insert**

45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

**Large pad for graphite insert**  
5 per package  
Order No.: 54-B 052

Recommended for tight corners



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Carbon fiber micro-brush**  
Order No.: 54-B 158

Replacement wand assemblies



4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

# SURFOX MINI™

The ideal unit for field or repair work

The ergonomically designed SURFOX Mini™ comes equipped with a variable power setting that ensures a perfect finish on even the most delicate surfaces. This unit utilizes refillable electrolyte cartridges instead of an integrated tank to reduce the weight and increase portability. Excellent for use on repairs, touchups and small jobs. This newly redesigned unit can clean TIG or spot welds on stainless steel and MIG, TIG or spot welds on aluminum. It can also mark stainless steel, aluminum and titanium surfaces with the use of a SURFOX marking kit.

## Features

*The SURFOX Mini comes equipped with a unique cartridge refilling pump. You can easily refill cartridges and save money by buying SURFOX electrolyte solutions in bulk packaging.*



Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
MINI	54-D 055	120 V, 50/60 Hz, 4.0 A	12-30 V AC/DC, 15 A max	12"	4.5"	8.86"			8.4 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 narrow tungsten insert (54-B 038), 1 x narrow cleaning pad (54-B 028), 1 x teflon ring (54-B 020), 1 x carbon fiber micro-brush (54-B 157), 1 x adaptor for micro-brush (54-B 150), 1 x manual refilling pump (54-B 092), 1 x ground cable (48-R 283), 1 x user guide, 1 x carrying case

## SURFOX MINI ACCESSORIES

Recommended for cleaning TIG welds



**Narrow tungsten insert**  
Order No.: 54-B 038

**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
Order No.: 54-B 028

Recommended for renewing large surfaces



**Large graphite insert**  
35 mm W - Ideal for surface  
renewing or restoring, and to clean  
the back of MIG welds  
Order No.: 54-B 048

**Large pads for large graphite  
insert for SURFOX Mini**  
Pack of 10 with O-ring  
Order No.: 54-B 051

Recommended for tight corners



**Spare brush adaptor  
for Micro-Wand**  
Order No.: 54-B 150

**Carbon fiber  
micro-brush**  
5 per package  
Order No.: 54-B 157

Replacement pump for refilling cartridges of  
SURFOX electrolytes

### Cartridge refiller

Use this pump to buy SURFOX-T or SURFOX-G  
in bulk packaging and save even more money  
(included with every new SURFOX MINI;  
replacement part only)  
Order No.: 54-B 092



**NEW**

# SURFOX™ TURBO

Powerful, compact and reliable

The SURFOX™ TURBO cleans TIG, MIG and spot welds on stainless steel and delivers an excellent cost-benefit ratio for cleaning and achieving passivation. Powerful, compact and portable, the SURFOX™ TURBO is designed to achieve passivation in the simplest and easiest way.



Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
TURBO	54-D 045	120 V, 50/60 Hz, 8.0 A	12-30 V AC/DC, 20 A max	18.50"	4.5"	8.84"	-----	-----	15 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 038), 1 x high conductivity cleaning pads (54-B 028), 1 x narrow Teflon ring (54-B 020), 1 x SURFOX TURBO carbon fiber brush (54-B 205), 1 x adaptor for SURFOX SURFOX MINI/TURBO (54-B 150), 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX TURBO ACCESSORIES

Recommended for cleaning TIG welds



**Narrow tungsten insert**  
Order No.: 54-B 038

**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
Order No.: 54-B 028

SURFOX™ TURBO wand



SURFOX™ TURBO wand is easy to use, durable and reliable.

**Order No.:** 54-B 201

SURFOX™ TURBO carbon fiber brush



SURFOX™ TURBO brushes are flexible and can be trimmed as often as needed.

**Order No.:** 54-B 205



# SURFOX SOLUTIONS



## SURFOX-G™

pH neutral electrolyte solution

Can be used with high conductivity pads and carbon fiber brushes.

**NSF category A3, registration #146974**

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 061	S-10E	6
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

- ▷ *Great for cleaning MIG and TIG and spot welds on stainless or aluminum*
- ▷ *pH neutral, non acidic*
- ▷ *Safe alternative to pickling paste and strong acids*
- ▷ *Non-corrosive*
- ▷ *Compatible with all SURFOX machines*
- ▷ *Lower environmental impact*



## SURFOX-T™

Heavy-duty formula

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

**NSF category A3, registration #142984**

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

- ▷ *Quickly cleans all MIG and TIG welds on stainless steel or aluminum*
- ▷ *Safe alternative to pickling paste and strong acids*
- ▷ *SCAQMD compliant*

### Tech tip!

Use with SURFOX-T drum pump 54-B 106



## SURFOX-N™

Cleaning and neutralizing formula

**NSF category A1, registration #142985**

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

- ▷ *Must be used to clean and neutralize SURFOX electrolyte solutions*
- ▷ *SCAQMD compliant*
- ▷ *Prevents the formation of salt deposits (hazy white discoloration) around welds cleaned with SURFOX*



## 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

### Tech tip!

Use with white Blendex hand pads (07-A 500) to easily remove rust and other surface contaminants

## 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**

### 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*



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

# OTHER SURFOX ACCESSORIES

## Cleaning pads

Designed to be used with SURFOX-G and SURFOX-T



**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 143  
10 per package plus clamp ring  
**Order No.:** 54-B 026



**Inside corners cleaning pad**  
60 mm L x 38 mm W x 2 mm T  
10 per package plus clamp ring  
**Order No.:** 54-B 027



**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
**Order No.:** 54-B 028



**Large pad for large graphite insert**  
90 mm L X 50 mm W X 2 mm T  
Pack of 10 with O-ring  
**Order No.:** 54-B 043



**Large pad for graphite insert**  
5 per package  
**Order No.:** 54-B 052



**Large pad for large graphite insert for SURFOX Mini**  
Pack of 10 with O-ring  
**Order No.:** 54-B 051

For all models



**Narrow clamp ring for narrow pads**  
Use with narrow inserts 54-B 038  
10 per package  
**Order No.:** 54-B 020



**SURFOX RENEW refillable trigger sprayer**  
Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. 500 ml (16.9 oz)  
**Order No.:** 53-L 353



**Electrolyte straw**  
**Order No.:** 48-R 294



**12' long cable for Micro-Wand**  
**Order No.:** 48-R 458



**Clamp ring for cleaning pads**  
Use with inserts 54-B 143 and 54-B 036  
10 per package  
**Order No.:** 54-B 002



**SURFOX PRE-WELD refillable trigger sprayer**  
Formulated for preparing and degreasing metal surfaces prior to welding. 500 ml (16.9 oz)  
**Order No.:** 53-L 354



**SURFOX Powercloth**  
**Order No.:** 54-B 090



**Micro-Wand and brush kit**  
With carbon fiber brush for cleaning corners and intricate areas  
**Order No.:** 54-B 133



**SURFOX-N refillable trigger sprayer**  
Identified with GHS compliant product specific labels showing product features, OSHA/WHMIS information and directions for use. 500 ml (16.9 oz)  
**Order No.:** 53-L 339



### SURFOX station

With its sturdy and industrial design, the SURFOX station has been designed to make it easy to move your SURFOX system throughout your work environment while allowing for the storage of various cleaning agents and accessories.

**Order No.:** 54-B 050



**Micro-Wand and tungsten insert kit**  
With tungsten inserts and pads for cleaning corners and intricate areas  
**Order No.:** 54-B 033

# SURFOX MARKING KITS



Go ahead, make your mark!

SURFOX™ marking kits use a fast and simple electrochemical process to permanently mark stainless steel surfaces. The marking wand plugs directly into the SURFOX machine and is used with specially made permanent or disposable stencils.



## STANDARD MARKING KIT

Order No.: 54-B 080

The standard kit requires the use of permanent stencils available from Walter, each of which can be used hundreds of times.

**Includes:**

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze bottle for white etching (DC mode)
- Packaged in a professional and sturdy case



## PRO MARKING KIT

Order No.: 54-B 081

The PRO kit is offered with a stencil thermal printer for the printing of disposable stencils to permanently mark stainless steel surfaces. The printer comes with software that allows the creation of stencils for barcodes, serial numbers, lot and batch numbers, text, company logos, and more.

**Includes:**

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze bottle for white etching (DC mode)
- Thermal printer and 20 m of stencil paper
- Packaged in a professional and sturdy case

# 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



For marking aluminum

**SURFOX-M ALU electrolyte solution**  
100 ml squeeze bottle  
**Order No.:** 54-A 131  
Also available in 5 L format  
**Order No.:** 54-A 136



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



## Permanent stencils

Can be used up to 200 times.

- |                 |                          |
|-----------------|--------------------------|
| 54 mm X 32 mm   | 54-B 076                 |
| 85 mm X 54 mm   | 54-B 077                 |
| 170 mm X 108 mm | 54-B 073                 |
| 257 mm X 170 mm | 54-B 074                 |
| 355 mm X 155 mm | 54-B 079 *Aluminum frame |

For more information: [stencil@walter.com](mailto:stencil@walter.com)

Marking on aluminum using customizable stencil paper rolls



# SURFACE MEASURING SYSTEMS



## SURFOX™ SMART PASSIVATION TESTER

Quickly and easily guarantee passivated stainless steel

The importance of validating the passivation of your stainless steel surfaces cannot be stressed enough. Impossible to detect with the naked eye, passivation indicates that the protective layer of chromium oxide exists on your stainless steel surface – the essential ingredient that guarantees your stainless steel will resist corrosion.

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

Avoid costly re-work and rejected pieces and ship your products with confidence. With the SURFOX™ Smart Passivation Tester, you rely on the most innovative and easy-to-use technology on the go.

 **YouTube**  
 Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# SURFOX™ SMART PASSIVATION TESTER

## HOW IT WORKS

Using Bluetooth technology, the device connects to your smartphone, and seamlessly uploads your reports to the “Walter Cloud”, a secure online database set up for easy data management, analysis and report building.

Bluetooth | Wi-Fi | 

App 2.3 allows you to work offline and sync the results when you have Internet access

- ▷ *Easy to use*
- ▷ *Wireless device*
- ▷ *Bluetooth-enabled*
- ▷ *Smartphone compatible*
- ▷ *Test data stored in a cloud-based database*
- ▷ *Quickly generate reports*
- ▷ *Monitor, measure and guarantee the passivation level on workpieces or finished goods*
- ▷ *Minimize costly downtime caused by reworks*
- ▷ *Non-destructive test method – will not damage stainless steel piece when used properly\**

\*Requires neutralization with SURFOX-N / FT 100



Easy login from your phone or tablet. Simply download the free SURFOX app on the Apple store.



Set the probe on your surface and click “start” to begin the process and automatically sync.



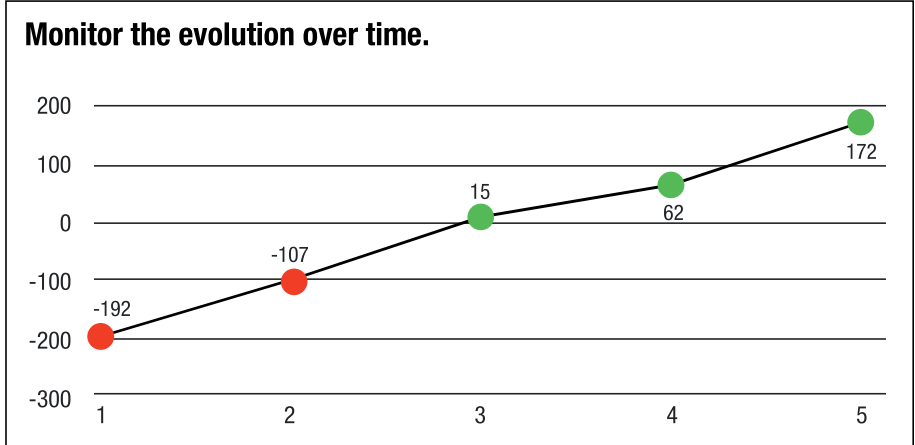
Results are measured and stored within seconds.



Set specific locations to test and associate the data with these points.



Stay organized with the ability to securely and confidentially store results by customer or part on the Walter Cloud platform.



*Reduce unnecessary downtime caused by rework. Guarantee your customers that parts are protected from rust and corrosion.*

*Provide documented proof of passivation once completed!*

## SURFOX™ SMART PASSIVATION TESTER

Order No.: 54-T 011

Accessories	
Replacement cartridge	Order no. 54-A 050
White felt tip (Pkg. 5)	54-B 046



*Attach copies and other related documents to your project files and certify your work to your customers in an efficient manner.*

**YouTube**  
 Video available at [The Walter Netw](http://TheWalterNetw)  
[www.youtube.com/user/TheWalterNetw](http://www.youtube.com/user/TheWalterNetw)

# E-WELD NOZZLE

Total nozzle protection for up to **8 hours!**

- **UNIQUE APPLICATOR** ensures a thin, even protective coat.
- Extends nozzle life.
- Perfect for all types of welding, resists temperatures up to **1000 °C**.



Spatter build up obstructs gas flow, resulting in inconsistent weld quality.



Thin layer of E-Weld Nozzle ensures gas flows freely for a clean, high quality weld.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

[walter.com/e-weld\\_nozzle](http://walter.com/e-weld_nozzle)



# ANTI-SPATTER SOLUTIONS

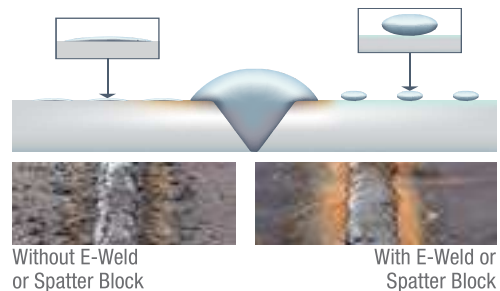
## Why use anti-spatter solutions?

When small pieces of molten metal fly off the welding arc, the spatter, or slag, lands on weld surfaces around seams. As it cools and hardens on the surface on which it lands, it can be difficult to remove. Abrasives or chisels will then need to be utilized to remove the spatter to ensure a smooth surface for finishing the workpiece. However, by leveraging an anti-spatter solution before you begin welding, you can eliminate the time and cost of using abrasives or tools to remove weld spatter.










## Why use Walter *E-Weld* and *Spatter Block* anti-spatter solutions?

Walter has developed a safer and healthier line of anti-spatter solutions to prevent spatter from adhering to surfaces. Our anti-spatter solutions are biodegradable, non-flammable and non-toxic so that you can improve your work process without sacrificing worker health and safety.



## Selection chart

Required protection	Advantages	Products
<b>Nozzle protection</b>	Ceramic / Resists to up to 1000°C	 <b>E-WELD Nozzle</b>
	Practical magnetic gel dispenser	 <b>SPATTER BLOCK Gel</b>
<b>Anti-spatter</b>	For high heat applications. Can be used as a degreaser.	 <b>E-WELD 3</b>
	Protects against corrosion and will not cause porosity	 <b>E-WELD 4</b>
	Temporary corrosion protection	 <b>SPATTER BLOCK</b>
	For high heat application	 <b>SPATTER BLOCK HT</b>
<b>Cutting table protection</b>	Prevents adhesion of slag to slats on cutting tables	 <b>E-WELD Plasma</b>



**PROTECTS**  
WELDING NOZZLES  
FOR UP TO 8 HOURS



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## E-WELD NOZZLE™

Total nozzle protection for best efficiency

Extend the life of welding nozzles and reduce downtime spent scraping out spatter with E-WELD Nozzle™. This highly concentrated anti-spatter evenly coats the exterior and interior surface of your welding nozzle to prevent spatter from adhering to the nozzle. This prevents obstructions and allows the gas to flow freely, resulting in a higher quality weld. This is an extremely economical solution, as the easy applicator dispenses a thin layer that can provide protection for up to 8 hours. This is an ideal solution for MIG welding, plasma cutting and laser cutting as the E-WELD Nozzle™ can withstand high temperatures (up to 1000° C) and reduce your consumable spend.

- ▷ *No weld contamination*
- ▷ *Helps prevent weld porosity*
- ▷ *No time lost on scraping spatter from nozzle prior to welding*
- ▷ *Economical*
- ▷ *Improves weld quality and reduces rejection rate*
- ▷ *Only a thin layer needed (up to 100 applications per can)*
- ▷ *Extends lifetime of nozzles*
- ▷ *Eliminates the frequent need for spatter removal and eventual replacement*
- ▷ *Superior life and more solution per can compared to competitive products*



*Nozzle using E-WELD Nozzle*



*Nozzle fully clogged (not using E-WELD Nozzle)*

Unique self-dispensing applicator easily dispenses highly concentrated ceramic coating

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 fl. oz.	53-F 212	F-156	6
Applicator			53-L 121		1
Aerosol and applicator			53-F 912	F-156	6

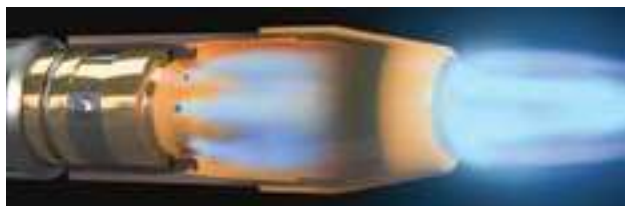
**Color:** Orange

## NOZZLE PROTECTION TO AVOID SPATTER BUILD-UP

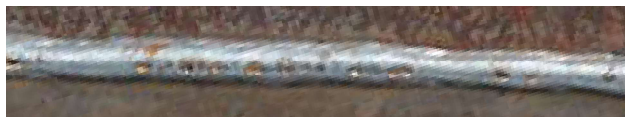
### With E-WELD Nozzle™



E-WELD Nozzle coats the exterior and interior of the nozzle, the contact tip and the diffuser to avoid spatter from adhering, thus preventing obstruction.



This allows the gas to flow freely and heat the wire consistently.



End-result is a consistent, good quality weld which results in virtually no rejected pieces.

### Without E-WELD Nozzle™



During the welding process, welding nozzles and tips get clogged with hot spatter which fuses to the nozzle, creating obstruction. This prevents the shielding gas to flow freely and heat the wire evenly.



The end-result is an inconsistent, poor quality weld with a higher rejection rate.



*Results in virtually no rejected pieces!*



## SPATTER BLOCK GEL™

Anti-spatter gel

Superior anti-spatter gel for protecting the interior and exterior of welding nozzles and contact tips.

### Benefits

- ▷ Extends welding torch life
- ▷ Fast, easy cleaning of nozzles and contact tips

### Features

- ▷ Free of chlorinated compounds and silicone
- ▷ Odorless
- ▷ Packaging height is designed to prevent clogging of gas diffusers in welding nozzles



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Metal tin	200 g	7.0 oz	53-F 103	L-12	12

**Color:** Translucent

*Magnetic tin "sticks" to steel work tables and vertical surfaces*



## E-WELD PLASMA™

Long lasting protection for laser and plasma cutting tables

E-WELD Plasma™ is a ceramic anti-spatter solution that is applied to laser and plasma cutting tables to reduce the buildup of slag over time.

This simple preventative measure keeps the slag from adhering to the slats in cutting tables, allowing it to be easily removed before it builds up and becomes problematic. This significantly decreases the amount of time and effort needed to clean slag off cutting tables, which saves you a great deal of labor time – and associated costs – in plant maintenance.

**Now compatible with wet tables.**

Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
<b>TV</b> Aerosol	400 ml	13.55 oz	53-F 602	L-174	1
Sprayer	500 ml	16.9 oz	53-L 126		1
Liquid	10 kg	22 lbs	53-F 605	L-142	1

**Color:** White

### **Tech tip!**

Stack multiple cutting tables behind one another and slightly offset them from one another so all the slats on each table are exposed. This will allow you to coat multiple cutting tables at once, saving even more time.



### Benefits

- ▷ *Greatly reduces the amount of time required to remove slag from cutting tables*
- ▷ *Spend less time on equipment maintenance and more time on revenue generating activities*
- ▷ *Can also be applied to other equipment that is exposed to weld spatter or slag*
- ▷ *Spray gun applicator dispenses a thin, even layer to help prevent wasteful over application*
- ▷ *Can be applied to wet or dry cutting tables*

### Features

- ▷ *Ceramic formula provides long lasting protection, even in the presence of extreme heat*
- ▷ *Spray gun applicator allows you to quickly and easily dispense the product across large surface areas*
- ▷ *Each 10 kg container provides enough antispatter to cover 50-100 m<sup>2</sup> (square meters)*
- ▷ *E-WELD Plasma can be painted on manually or sprayed on with the applicator; just stir the solution prior to use*
- ▷ *Use a degreaser like SURFOX Pre-Weld to clean slats prior to use to ensure a strong, adhesive coating*



## SPATTER BLOCK™

**NEW**

General purpose anti-spatter emulsion

SPATTER BLOCK is a safe, natural solution that protects the workpiece from weld spatter to keep you from having to perform time-consuming, costly rework.

### Features

- ▷ Does not interfere with painting process
- ▷ VOC-free, solvent-free and silicone-free, biodegradable, non-flammable
- ▷ Formulation based on natural plant extracts
- ▷ Odorless
- ▷ Effective welding amperage range: 100-225 A
- ▷ Contains temporary corrosion inhibitors



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.55 oz	53-F 002	L-10	12
Sprayer	500 ml	16.9 oz	53-F 203	L-21	12
Liquid	3.78 L	1 gal	53-F 205	L-21	1
Liquid	20 L	5.2 gal	53-F 207	L-21	1
Liquid	208 L	55 gal	53-F 208	L-21	1

Color: Milky green

### Tech tip!

Only requires a thin protective film to prevent spatter adhesion.

## SPATTER BLOCK HT™

**NEW**

High temperature anti-spatter solution

SPATTER BLOCK HT is a unique, high performing anti-spatter solution that protects workpieces from adherence of high energy spatter and eliminates costly spatter removal operations.

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Odorless
- ▷ Effective amperage range: 100 – 400 A

### Benefits

- ▷ Allows multi pass welding
- ▷ Does not interfere with paint adhesion



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.55 oz	53-F 222	L-136	12
Sprayer	500 ml	16.9 oz	53-F 223	L-46	12
Liquid	3.78 L	1 gal	53-F 225	L-46	1
Liquid	20 L	5.2 gal	53-F 227	L-46	1
Liquid	208 L	55 gal	53-F 228	L-46	1

Color: Amber



## E-WELD 3™

High temperature anti-spatter solution

E-WELD 3 is a high performance anti-spatter solution that both cleans the workpiece and protects it from high energy spatter, eliminating an extra step in the welding process while avoiding costly rework. E-WELD 3 is often the preferred solution for use on stainless steel.

NSF category P1, registration #145451

### Benefits

- ▷ Cleans and degreases weld area
- ▷ Allows multi pass welding
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Odorless
- ▷ Effective amperage range: 100 – 400 A



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
<b>M</b> Aerosol	400 ml	13.55 oz	53-F 252	L-176	12
Sprayer	500 ml	16.9 oz	53-F 253	L-46	12
Liquid	3.78 L	1 gal	53-F 255	L-46	1
Liquid	20 L	5.2 gal	53-F 257	L-46	1
Liquid	208 L	55 gal	53-F 258	L-46	1

Color: Clear blue

## E-WELD 4™

Premium anti-spatter emulsion

E-WELD 4 is a unique anti-spatter solution which protects workpieces from the adherence of spatter. With the addition of special natural ingredients, E-WELD 4 retracts in the presence of heat, leaving the welding area free of liquid. This means that unlike competitive products, E-WELD 4 is guaranteed not to cause weld porosity or cracking, even when overapplied to work surfaces.

### Benefits

- ▷ Will not contribute to weld porosity
- ▷ No weld cracking
- ▷ Corrosion resistant
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Formulation based on natural plant extracts
- ▷ Pleasant citrus scent
- ▷ Effective welding amperage range: 100 – 225 A



Description	Size		Order No.	(M)SDS	Std. Pkg.
	Metric	US Gal			
<b>M</b> Aerosol	400 ml	13.55 oz	53-F 402	L-177	12
Sprayer	500 ml	16.9 oz	53-F 403	L-147	12
Liquid	3.78 L	1 gal.	53-F 405	L-147	1
Liquid	20 L	5.2 gal.	53-F 407	L-147	1
Liquid	208 L	55 gal.	53-F 408	L-147	1

Color: White



### Tech tip!

Best choice for welding on aluminum surfaces.





## INDUSTRIAL PUMP SPRAYERS

Tough industrial sprayers designed to quickly and effectively dispense anti-spatter products. The spray pattern can easily be adjusted from a pin point jet for accurate product dispensing to a wide fan for greater surface coverage. These thick walled polyethylene bottles have regulatory compliant labels and feature a wide neck for easy refilling.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
Spatter Block	900 ml	30.4 oz	53-L 101	1
E-Weld 3	900 ml	30.4 oz	53-L 105	1
E-Weld 4	900 ml	30.4 oz	53-L 107	1



## REFILLABLE TRIGGER SPRAYERS

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, WHMIS HCS 2012 compliance and directions for use.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
Spatter Block	500 ml	16.9 oz	53-L 321	1
E-Weld 3	500 ml	16.9 oz	53-L 320	1
E-Weld 4	500 ml	16.9 oz	53-L 338	1



# AIR FORCE SYSTEMS

FOR SPATTER BLOCK, SPATTER BLOCK HT, E-WELD 3 AND E-WELD 4

The Air Force aerosol can refilling station offers the convenience of using aerosol cans with the cost effectiveness of buying bulk packaging

**NEW**



The Air Force station automatically dispenses Spatter Block, Spatter Block HT, E-WELD 3 and E-WELD 4 solutions and compressed air into refillable spray cans helping you reduce costs associated with the disposal of harmful aerosol cans as well as your environmental impact.

**1X 208L DRUM = 700 CANS**

## Benefits

- ▷ *Eliminates aerosol disposal costs*
- ▷ *Reduces environmental impact*
- ▷ *Perfect price to performance ratio*

## AIR FORCE refillable sprayer

Durable and light weight aluminum Air Force sprayer comes with a specific label to clearly identify the contents.



*No more disposing of hazardous aerosol cans*





# AIR FORCE START-UP PACKAGES

## AIR FORCE SPATTER BLOCK™ 208 L / 55 gal.

Order no.  
**57-D 018**

**The start-up package includes:**

- ▷ 1 x 53-F208 Spatter Block  
208 L / 55 gal. drum
- ▷ 1 x 57-D 000 Air Force Generic  
Orange Station
- ▷ 4 x 53-B 101 refillable bottle



## AIR FORCE SPATTER BLOCK HT™ 208 L / 55 gal.

Order no.  
**57-D 028**

**The start-up package includes:**

- ▷ 1 x 53-F228 Spatter Block HT  
208 L / 55 gal. drum
- ▷ 1 x 57-D 000 Air Force Generic  
Orange Station
- ▷ 4 x 53-B 102 refillable bottle

## AIR FORCE E-WELD 3™ 208 L / 55 gal.

Order no.  
**57-D 038**

**The start-up package includes:**

- ▷ 1 x 53-F258 E-Weld 3  
208 L / 55 gal. drum
- ▷ 1 x 57-D 000 Air Force Generic  
Orange Station
- ▷ 4 x 53-B 103 refillable bottle



**Air refilling pod**  
Order No.: 53-M 010

## AIR FORCE E-WELD 4™ 208 L / 55 gal.

Order no.  
**57-D 048**

**The start-up package includes:**

- ▷ 1 x 53-F 408 E-Weld 4  
208 L / 55 gal. drum
- ▷ 1 x 57-D 000 Air Force Generic  
Orange Station
- ▷ 4 x 53-B 104 refillable bottle

Accessories	Order No.
Air refilling pod	53-M 010
Replacement valve kit (includes 2 valves and 2 spray tips)	57-B 000
Brass screw cap	53-M 037
Drum adaptor	53-M 038

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