

# SURFOX MINI™ 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 ideal unit for field or repair work

The ergonomically designed SURFOX MINI™ comes equipped with a variable current 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, touch-ups 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 & benefits:

- Compatible with all SURFOX electrolyte cleaning solutions
- Uses nitric and hydrofluoric acid free SURFOX electrolyte solutions
- Cleaning of a typical TIG at a speed of 5 ft/minute with no scrubbing or mechanical action required
- Instant cleaning of heat tint on welds
- Equipped with a unique cartridge refilling pump, allowing user to easily refill cartridges and save money by buying SURFOX electrolyte solutions in bulk packaging
- Switchable output: AC mode (cleaning & marking) and DC mode (polishing & etching)
- Variable current output knob, allowing the end user to pre-set the desired power level
- Marking on aluminum, stainless steel, and titanium surfaces
- **The use of SURFOX systems is a recognized method for achieving chemical passivation on Stainless Steel Parts, as defined by the ASTM A967 specification**

Description	Electrical		Dimensions			Tank Capacity	Length of hose	Weight	Order No.
	Input	Output	Length	Width	Height				
SURFOX MINI	120 V, 50/60 Hz, 4.0 A	12-30 V AC/DC, 15 A max	12"	4.5"	8.86"	-	-	8.4 lbs	54-D 055

\*Standard equipment includes: 1 x 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 117), 1 x adaptor for micro-brush (54-B 100), 1 x manual refilling pump (54-B 092), 1 x ground cable (48-R 283), 1 x user guide, 1 x DVD, 1 x carrying case

## SURFOX MINI™ – Weld Cleaning System

### ACCESSORIES

#### *Electrolyte 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 and brushes*

Inside corners cleaning pad	54-B 027 (pack of 10)
Narrow high conductivity cleaning pads	54-B 028 (pack of 10)
Large pad for graphite insert	54-B 051 (pack of 10)
Clamp ring for cleaning pad	54-B 002 (pack of 10)
Narrow clamp ring for narrow pads	54-B 020
Micro-wand and tungsten insert kit	54-B 033

#### *Brushes*

Micro-wand and brush kit	54-B 133
Carbon fiber micro-brush	54-B 117
Spare 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)

#### *Tungsten and graphite inserts*

Narrow tungsten insert	54-B 038
Tungsten insert 90°	54-B 036
Large graphite insert	54-B 048

## SURFOX MINI™ - Weld Cleaning System

### *Refiller*

Cartridge refiller replacement 54-B 092

### *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

### *Power Cloth*

Surfox Power Cloth 54-B 090

### *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