



Stainless Steel Treatment Chemicals

Pickling of stainless steel

- For the removal of weld scale, heat tint, ferric oxides, chlorides and other surface contamination
- Leaves the weld and heat affected zone chemically and visually clean
- Aids the auto-passivation process
- Confers greater corrosion protection than grinding or sandblasting
- Non residual, cost effective

Overview

- Chemical treatment of stainless steel is a vital component of the fabrication process
- Pickling of stainless steel following welding leaves a visually and chemically clean surface, which allows a greater chance of the stainless steel forming a passive chrome oxide film.

Passivation of stainless steel

- Passivation is the process whereby chrome oxide is regenerated in an oxidising environment
- Chrome oxide is depleted by grinding, sandblasting, polishing, pickling, surface damage and contact with corrosive substances

Overview

- S-Weld Clean is an advanced high adhesion pickling gel suitable for all grades of stainless steel, including many high performance alloys and titanium
- A range of stainless steel treatment products is now available to maximise surface finish and corrosion resistance

Passivation of stainless steel

- Failure of stainless steel to become or remain passive leads to corrosion
- Corrosion can occur due to the presence of embedded iron oxides and iron chlorides, other surface contamination, or following mechanical surface treatment methods such as grinding, polishing etc.

Passivation of stainless steel

- Surface passivation treatment restores the corrosion resistant properties of stainless steel
- Auto-passivation in air may not occur and does not always ensure corrosion resistance
- Chemical passivation with a nitric acid based passivator enhances the restoration of the chrome oxide passive film

Specifications

- Contains :
Nitric Acid 30% and Hydrofluoric Acid 5%
- ASTM 380a compliant formulation
- S-Weld Clean is a high adhesion gel, not a paste
- Pack sizes available 1kg, 2.5kg, 5kg & 25kg

S-Weld Clean

- High technology pickling gel
- Outperforms leading European brands
- Superior gel adhesion technology
- Can even be used on vertical or overhead surfaces
- Stronger and faster acting
- Removal of weld scale & iron contamination which initiates corrosion

Other Pickling Products

- Weldbrite spray pickle
- Steelbright pickling solution

S-Weld Clean

- Superior packaging & customer information
- Free acid resistant application brush

Weldbrite Spray Pickle

- High technology gel
- ASTM 380a compliant formulation
- Gel adhesion allows uniform coverage of tanks and vessels with greater safety and reduces run-off and wastage
- Strong and fast acting
- Removal of weld scale & iron contamination which initiates corrosion
- Pack sizes available 20L, 200L

Steelbright Pickling Solution

- For immersion treatment in pickling bath
- Strong and fast acting
- Removal of weld scale & iron contamination which initiates corrosion
- ASTM 380a compliant formulation
- Water dilutable & rinsable
- Pack sizes available 5L, 20L, 200L

S-Weld Passivator

- Strong oxidising agent to passivate stainless steel following pickling, polishing, sandblasting or grinding during fabrication
- Restores chrome oxide passive layer
- Enhances corrosion resistance of stainless steel
- Easy to apply gel, or solution

Chemical treatment in fabrication

<ul style="list-style-type: none"> • Surface preparation, cleaning and / or degreasing • Weld spatter protection • Descaling / pickling 	<ul style="list-style-type: none"> • Environmental compliance - waste disposal • Passivation i.e. corrosion protection • Cleaning of finished product
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S-Weld Passivator

- Essential following grinding or sandblasting of welds when pickling is not performed
- Use in maintenance procedures following corrosion removal from polishing or chemical deoxidisation
- Pack sizes available 2.5kg

Other Stainless Steel Products

- S-Weld Passivator - passivating gel
- S-Weld Neutralizer - neutralising solution
- S-Weld Brite Wash - deoxidising solution & cleaner
- Prosol - cleaner & polish

S-Weld Brite Wash

- For removal of embedded iron contaminants and corrosion on stainless steel & polished aluminium
- Quickly removes corrosion products
- Removes organic residues such as light oil, grease finger marks
- Essential as a final cleaner after fabrication or installation

S-Weld Brite Wash

- Will not affect surface finish
- Also effective for mild steel
- Final rust remover and cleaner before priming mild steel
- Readily miscible with water at all concentrations
- Pack sizes available 500ml ready to use trigger pack, 5L, 20L & 200L

Prosol

- Specialised stainless steel & aluminium pre-weld cleaner
- Replacement for thinners, kerosene, toluene, MEK and other hazardous solvents
- Excellent for architectural market, removing finger prints from hand rails, elevator doors etc

S-Weld Neutralizer

- Alkaline solution for neutralising acidic pickling waste prior to discharge to sewer
- Built-in acid / base indicator
- Bright pink solution goes clear at neutralisation point
- Reduces hazard of pickling waste
- Aids trade waste compliance

Prosol

- Non-toxic, non-flammable, worker safe, biodegradable
- Slow evaporation makes Prosol economical
- Excellent for final clean-up & parts washing
- Conforms to Boeing D6-17487 specification for aircraft degreasing
- Pack sizes available 300gm aerosol or bulk 4L, 20L, 200L drums

S-Weld Neutralizer

- Can be used as a diagnostic tool to test for the presence of residual pickling gel or solution, especially in corners, crevices and hard to clean areas.
- An aid to worker safety
- Pack sizes available 5L, 20L, 200L